ANALOG WAY

Product Catalog

June 2007 June 2008

High Resolution Mixers and Seamless Switchers

Seamless Switchers

Event Controllers

Scan Converters

Scaler / Switchers

Multi Format Converters

DVI Interfaces

Interfaces

Cables

ANALOG WAY AROUND THE WORLD

Europe, Middle East and Africa

Parc du Moulin - BP 218
91882 Massy
Tel.: 33 1 64 47 16 03
Fax: 33 1 64 47 14 73
saleseuro@analogway.com

USA, Canada, South America and the Carribeans

75 Maiden Lane - Suite 902
New York - NY 10038
Tel.: 1 212 269 1902
Fax: 1 212 269 1943
salesusa@analogway.com

ASIA PACIFIC

700 Beach Road #03-07
InCity Lofts
Singapore 199598
Tel.: 65 6292 5800
Fax: 65 6292 5205
sales@analogwayasia.com

www.analogway.com

A NEW WORLD OF TECHNOLOGY

>> THINK

Thinking up the best solutions has always been our goal since 1989 and for 18 years, **Analog Way** has been a leader in innovation. We are using our knowledge and experience in image processing to convert and mix computer and video images. We offer a full range of Scan Converters, Seamless Switchers, Hi-Res. Mixers & Seamless Switchers, Event Controllers, Scalers, Line Multipliers, Up/Down Converters, Interfaces and Cables.

Our products embed the latest technologies in image conversion. Offering the best price/performance ratio is our constant goal while dedicating to continuously provide product ranges to easily fit your needs. **Analog Way** is committed in meeting your requirements and budget, for that reason, we incorporate our products into ranges to offer the best price/performance ratio on the market.

>> FAST

Quickly adapting to an ever-changing market, we are always anticipating the demands. We are continuously providing the most advanced solutions in Professional Video, Broadcast, AV, Staging, Large Events, Church, Industrial, Military and Medical markets. As the demand and needs are continuously changing, our complete product solutions are also continuously updated to meet the most recent technologies in the computer, video and presentation world.

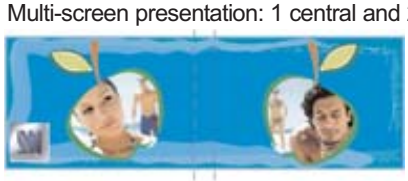
>> FORWARD

Helping our customers move forward is the key to our international success and we thank them for their contribution. We are always ready to assist, whether by providing technical assistance or by answering questions. To fulfill your needs faster and to better assist you in your daily work, we have offices in North America, Europe, and Asia.

TABLE OF CONTENT

High Resolution Mixers and Seamless Switchers

Application Notes



Seamless Switchers

Event Controllers

ANALOG WAY PRODUCT CATALOG 2007-2008

Scan Converters

Scaler / Switchers

Multi-Format Converters

DVI Interfaces

Interfaces

Miscellaneous

Product Comparison: the *iX* range

	Di-VentiX	EventiX	CentriX	NatiX
Operation Modes				
Embedded Soft Edge	✓			
Mixer	✓	✓	✓	
Matrix 8x2	✓	✓	✓	✓
Transition Effects				
Double PIP with Inlay Mode	✓	✓	✓	
PIP (Moving and Borders)	✓	✓	✓	
Cut - Cross Fade - Wipe - Slide	✓	✓	✓	
Title Effect with adjustable shadow	✓	✓	✓	
Inputs				
# of Inputs (total)	8	8	8	8
Composite (PAL - NTSC)	8**	8**	8**	8**
S.Video (Y-C)	8**	8**	8**	8**
Component (YUV)	8**	8**	8**	8**
RGsB & RGBS - 15 kHz	8**	8**	8**	8**
HDTV YUV, 1080i, 720p, 480p	8**	8**	8**	8**
Computer RGBHV - RGBS - RGsB	8**	8**	8**	8**
DVI	1*	1***	1***	1***
SD/HD-SDI	2*	1***	1***	1***
Up to 1600x1200 (UXGA) & 1920x1080 (HDTV)	✓	✓	✓	✓
Outputs				
Type and # — DVI (Main + Preview)	1+1			
Type and # — HD-SDI (Main + Preview)	1+1			
Type and # — Computer RGBHV - RGBS - RGsB (Main + Preview)	2+2	2+2	2+2	2+2
Type and # — SDI, YUV, Y/C, CV optional		✓	✓	✓
Format & Rates — Up to 1920x1080 & 1600x1200	✓			
Format & Rates — HD-SDI: 1080i & 720p	✓			
Format & Rates — Up to 1400x1050	✓	✓	✓	✓
Format & Rates — Internal 50/60/72[(1)]/75[(1)] Hz	✓	✓	✓	✓
Format & Rates — Follow on any Input or FRC	✓	✓	✓	✓
Image Control				
Automatic Standard Detection (NTSC - PAL - SECAM)	✓	✓	✓	✓
Auto Centering (Auto Pixel/Phase)	✓	✓	✓	✓
Memory Presets (Input/Output)	✓	✓	✓	✓
Input Aspect Ratio (4/3 - 16/9 - WS Anamorphic)	✓	✓	✓	✓
Freeze	✓	✓	✓	✓
Image Adjustements				
Brightness - Contrast - Color - Hue (NTSC)	✓	✓	✓	✓
Sharpness	✓	✓	✓	✓
Black Level	✓	✓	✓	✓
Horizontal Smooth	✓	✓	✓	✓
Frame & Logos				
# of Full Frame Stored	6	2	2	2
# of Logos Stored	8	8	8	8
Other Features				
Test Patterns	✓	✓	✓	✓
Remote Control (RS232)	✓	✓	✓	✓
LAN Control	✓	✓	✓	✓
Rack Mountable	✓	✓	✓	✓

[(1)]: Format dependant
**: Universal
*: Included in the 8 Inputs
***: Optional

High Resolution Mixers and Seamless Switchers

Di-VentiX

p. 10

> Hi-Res Computer and Video Mixer/Seamless Switcher with 100% Digital input/ output image processing
> PIP and powerful effects
> Features horizontal or vertical Edge Blending
➪ For High Resolution presentations in large events, Rental & Staging environments

EventiX

p. 12

> 2 Operation Modes for total flexibility: Switcher or Matrix
> Numerous effects and dynamic PIP with settable position, size and customized borders
> Multi-screen projection: Horizontal or vertical Soft Edge Blending
➪ For large events, Staging, High End presentations

CentriX

p. 14

> 2 Operation Modes for total flexibility: Switcher or Matrix
> Available with Broadcast quality Video out
> Universality of sources
➪ For demanding installations and professional presentations

NatiX

p. 16

> Universal 8x2 Scaled Matrix
> Logo insertion and frame store
➪ For the installation and Rental & Staging markets

Cross Blender

p. 18

Add-on to Edge Blend up to 16 video projectors with 16 **Di-VentiX** or **EventiX**, vertically or horizontally

Dedicated Tools for Integrated Solutions

Axion

p. 66

High End Remote Console to manage unlimited number of devices of the *iX* range

TripliX

p. 68

Event Remote Console for the control of up to 3 *iX* Seamless Switchers

RK8022-T

p. 69

Event Remote Console with or without T-Bar

Manager Stage

p. 71

Application specific software to control an unlimited number of **EventiX** or **Di-VentiX** for large image presentations

Show Manager Open Edition

p. 72

Powerful application software to manage up to 16 display devices with the *iX* Switchers for astounding presentations

The Effects of Di-VentiX, EventiX and CentriX

All effects can be performed from Computer to Computer sources, Video to Video sources, Computer to Video sources and Video to Computer sources.

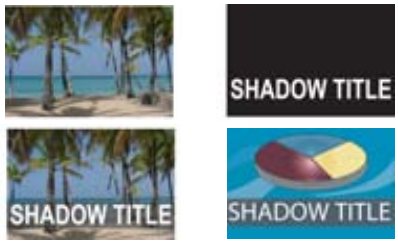
All effects with: 1 Di-VentiX (EventiX or CentriX) and 1 video-projector.

Logo Insertion

> Up to 2 logos can be displayed over Computer or Video sources
> iX Switchers record 6 full screen images* and 8 logos in 16 million colors in a non-volatile memory
> Images and logo(s) can be flash captured from any Video or Computer source by keying or image cut-out
> Logos can positioned anywhere on the screen

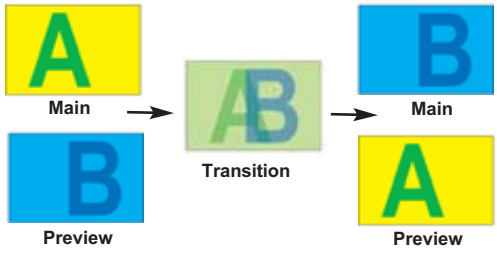
*2 on EventiX and CentriX

Title and Shadow Title



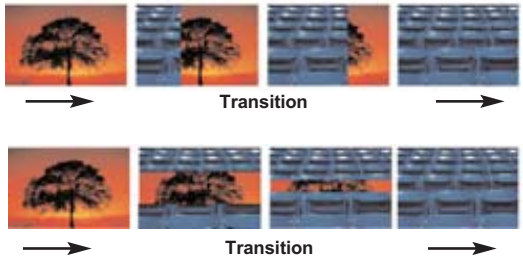
> The title remains on the screen while switching from Video to Computer sources and vice versa
> Title can be displayed over a Computer or a Video image
> The shadow title function, with adjustable vertical size and position as well as level of shadow, increases visibility on bright images

Fade



> Adjustable pre-timed fades or manual transition with T-Bar
> Fade between any input, Computer or Video with adjustable cross-fading duration

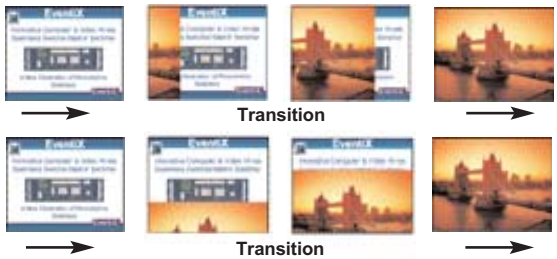
Horizontal and Vertical Wipes



> Numerous horizontal and vertical wipe transitions can be selected
> Horizontal: from left, right, center - or - vertical: from up, down, center

Slide

Sliding of Video or Computer images during the transition

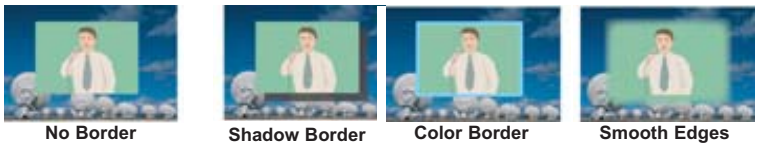


PIP Effect

High quality picture insertion from any input. The PIP can be sized and moved anywhere over the background image. Both background image and PIP can be fast & smoothly switched through a fade to black or customized color. Customizable borders are also available as well as different opening modes: cut, fade, sliding from one image edge.

PIP with borders

> Size and style of the PIP border are adjustable
> The background or PIP image can be switched



Titling in PIP

Title can be displayed anywhere in the PIP image and/or background image

Moving PIP

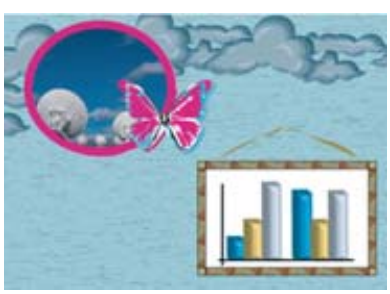
Dynamic PIP on the opening and closing of the sequence, vertical or horizontal

Double PIP

> The images in Main and Preview (=2 PIPs) and the Frame Store are displayed on the Main output
> PIP images can be changed while in the Frame

Double PIP

Insertion of double PIP with customized shapes



Examples of customized PIPs:

Double PIP

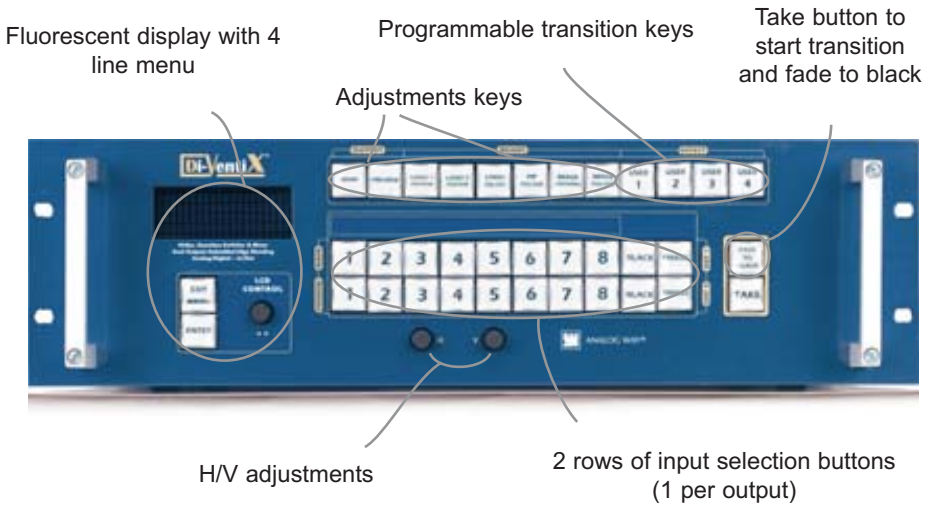
2 Video PIPs on a still background (frame store)

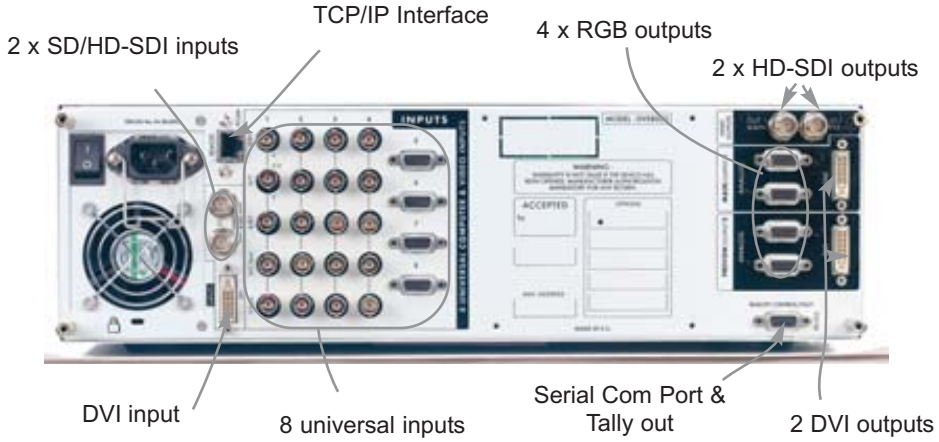
Di-VentiX™

Di-VentiX™

Model. DVX8022

- Hi-Res Computer and Video Mixer/Seamless Switcher
- 100% Digital Input/Output Image Processing
- Features Embedded Horizontal or Vertical Edge Blending
- PIP and Powerful Effects
- For High Resolution Presentations in Large Events, Rental & Staging Environments





3 Operation Modes

- Mixer Seamless Switcher with Hi-Res. Main & Preview outputs
- 8 inputs to 2 Scaled outputs Hi- Res. Native Matrix
- Edge Blending Dual Output Switcher on 2 video-projectors

8 Universal Inputs

- Composite, S.Video, YUV, RGB, SDI, HDTV, HD-YUV (2 SDI / HD-SDI and 1 DVI can be assigned to any of the 8 Inputs)
- Computer up to UXGA

Outputs

- 2 x Scaled up to 1920x1080p and 1600x1200 (UXGA),
- HDTV 1080i, 720p
- RGB, DVI and HD-SDI

Effects

- Fading, Titling, Moving PIP with Borders, Wipes, Cut, Seamless Switching
- Double PIP on Frame Stores
- Hi-Res. Logo Inserter & Frame Stores
- Embedded dual Edge Blending

Technical Specifications

8 Universal Inputs

Composite Video
NTSC = 15.735 kHz/60Hz
PAL/SECAM = 15.625kHz/50Hz
- **S.Video** (Y/C)
- **Component** (YUV) 60/50Hz - 625L/525L
- **RGB/S** (TTL or 0.3V Analog)
- RGsB (SOG: 0.3V Analog) 60/50 Hz - 625L/525L
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Wkst, Automatic synchro & centering. Resolution up to 1600x1200 (130kHz)
- **HDTV**: Component (HD-YUV 3 levels sync.) 1080i/60/50Hz, 720p/480p/60Hz
- 2 x SDI/HD-SDI - 4:2:2 (10 bits)
- 1 x DVI-D up to UXGA

Display Outputs
- Main / Out 1 & Preview / Out 2
- 2 x 2 HD15-F for: RGB HV, RGB/S or RGsB 0.7Vp/p / 75 Ohms
- 2 x DVI-D
- 2 x BNC for HD-SDI (HDTV)
- Output resolution:

PC 4/3: SVGA, XGA, SXGA, SXGA+, UXGA
PC 16/9: 852x480, 1280x720, 1365x768, 1920x1080, PC 50/60Hz and 72/75Hz up to SXGA,
HDTV: 1080i/50/60Hz, 720p/50/60Hz, 1080sF/24/25Hz, 1080p/24/25/30Hz

Audio Inputs and Outputs
Optional, see Inputs/outputs of the NatiX

User Controls
- 4 lines VFD screen with intuitive menu for complete in/out set up and image control
- High quality buttons for direct access to Input selection, effects, take, freeze, Main & Preview, logos, PIP and image positioning

Logos and Frame Stores
8 logos & 6 frame stores,16 million colors, Non-volatile memory, Flash capture of Video or Computer sources, 256 steps keying threshold control, Adjustable H&V logo position, 2 logos allocated per input

Effects
- Cut, PIP, fade, title, wipe, large choice of animated transitions, double PIP
- Embedded edge blending for 2 video-projectors

Input Connectors
- Input 1 to 4: on 5 x BNC
- Input 5 to 8: on HD 15F
- 2 x BNC for SDI
- 1 x DVI-I

Output Connectors
- *Main* / *Out 1*: 2 x HD15F, 1 x BNC, 1 x DVI-I
- *Preview* / *Out 2*: 2 x HD15F, 1 x BNC, 1 x DVI-I

Other
- DB9F serial com port for RS232 remote control, updates and Tally
- RJ45 for TCP/IP

Power Supply
Internal, universal, automatic, 100-250 VAC; 50/60 Hz (130W) (UL, CSA, GS, CE) On/Off main switch

Supplied with
- 1 x AC power cable
- 1 x Remote control software
- 1 x User manual

Dimensions - 19", 3U
D 16.5" x W 19" x H 5.25"
D 420 mm x W 480 mm x H 133 mm

Weight
8 kg (17.6 lbs) no options

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Di-VentiX™ by Analog Way is a Full Digital Computer and Video Up/Down Mixer Scaler Switcher. In addition to numerous effects such as fade, wipes, moving PIP and a true 8x2 scaled Matrix, Di-VentiX also includes a stand alone Soft Edge function with a dual output.

Stand alone Edge Blending Mode
In Edge Blending mode, **Di-VentiX** can drive 2 video-projectors for horizontal or vertical Soft Edge. Used as an 8 input switcher, **Di-VentiX** provides a double PIP image on a fixed background thanks to the 6 full frame images stored in its non volatile memory. The background image can be chosen among the 6 frames saved in the memory. The sources displayed in the PIPs can be switched.

Mixer Mode
Di-VentiX scales all sources and performs seamless switching transitions between any 2 inputs. The 2 Main outputs match the native resolution of any video-projector or Hi-Res. display device, and the Preview outputs allow to monitor the sequences before they are displayed on the main screens to avoid errors during a presentation.

Di-VentiX features the following effects: **PIP**, **Fade**, **Title**, **Cut** and **Wipes** - see details of effects page 8.

Native Matrix Mode
Di-VentiX switches any of the 8 inputs to 1 of the 2 or both outputs. Inputs are scaled and can be displayed with different resolutions on output 1 and 2.

Common Features in all modes
Equipped with 2 SDI/HD-SDI and 1 DVI input and DVI and HD-SDI outputs, **Di-VentiX** is a full digital In/Out signal processor providing enhanced image quality. **Di-VentiX** features 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector and frame rate converter & follower. Each input image control can be individually set and stored in a non-volatile memory.

> Logo Insertion and Frame Stores: Record 6 full screen images and 8 logos in 16 million colors in a non-volatile memory. Images and logo(s) can be flash captured from any Video or Computer source by keying or image cut-out. Up to 2 logos can be allocated per input and positioned anywhere on the screen.

> Audio Option: This optional card features 8 balanced stereo inputs, 2 balanced stereo outputs (+ mono), 1 auxiliary input mixed (not switched) with the 8 inputs with settable levels and master volume.

Multiple Screens
Di-VentiX can be upgraded with **Cross Blender** for multiple projectors edge blending.

Di-VentiX is specifically designed with a full control front panel for Hi-Res. A/V presentation displays, large events, and for the rental and installation markets. It offers a user-friendly interface and can be easily controlled & upgraded via its RS232, TCP/IP or by using the optional remote keypad.

To Control Di-VentiX

- **Remote Control Software** (supplied)
- **Axion:** High End event Remote Console. See page 66
- **TripliX:** Event Remote Console. See page 68
- **RK8022-T:** Keypad with or without T-bar. See page 69


Axion


TripliX


RK8022-T

Cables for Di-VentiX

> **BNC Cables from 1.8m/6ft to 20m/66ft:** Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **VGA Cables from 0.4mm/6ft to 1.8m/6ft:** Ref. 10014 10015 - 10077
> **VGA/BNC Adapter Cables in 1.8m/6ft and 3m/10ft (M/M - F/M):** Ref. 10023 - 10024 - 10025 - 10026
> **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **BNC HD-SDI Cables M/M from 3m/10ft to 30m/100ft:** Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 - 10141
> **DVI Cables from 1.8m/3ft to 70m/230 ft:** Details of references page 122

References

> DVX8022: Di-VentiX™

- **ARC100:** Axion™*
- **TRC8022:** TripliX™*
- **RK8022:** Remote keypad*
- **RK8022-T:** Remote keypad with T-Bar*

* sold separately

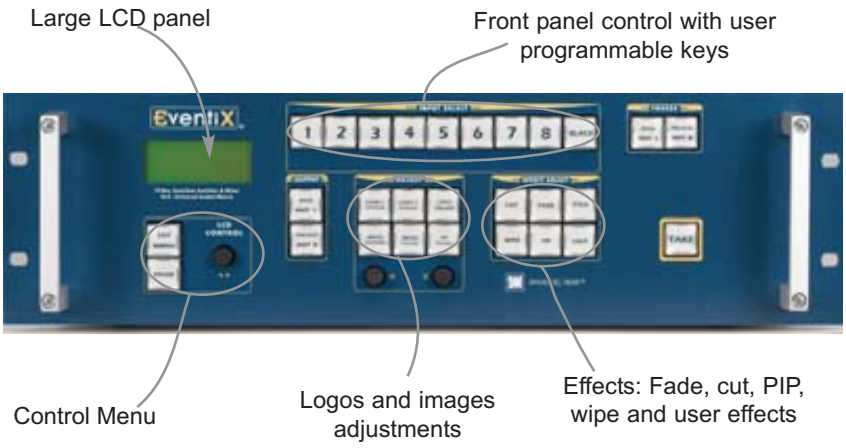
Options

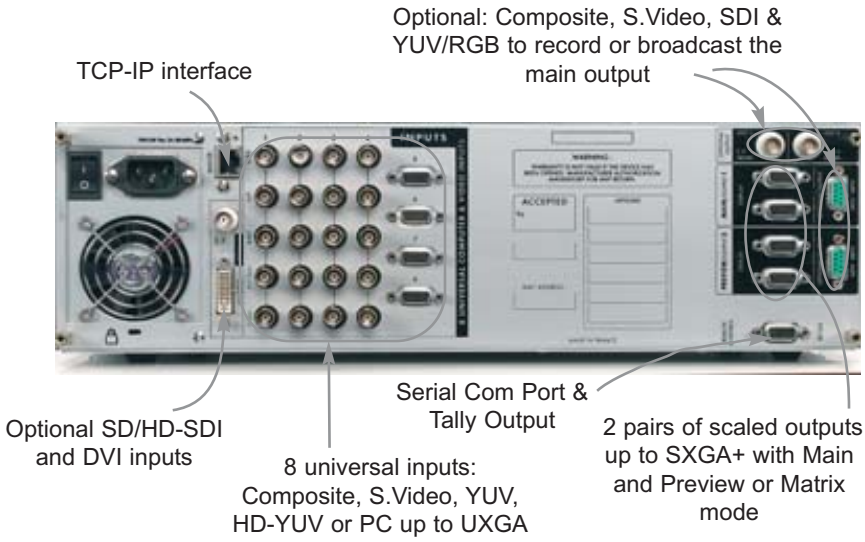
- **CBD-UP:** Cross Blender™
- **OPT-iX-A:** 8+1 stereo audio inputs + 2 stereo outputs, Main and Pre-listen

EventiX™

Model. EVX8022

- Hi-Res Computer and Video Mixer/Seamless Switcher
- Features Horizontal or Vertical Edge Blending
- PIP and Powerful Effects
- For High Resolution Presentations in Large Events, Staging & Rental Environments





2 Operation Modes
- Mixer Seamless Switcher with Hi-Res. Main & Preview outputs
- 8 inputs to 2 scaled outputs Hi-Res. Native Matrix

8 Universal Inputs
- Composite, S.Video, YUV, RGB, SDI, HDTV,
- Computer up to UXGA
- Optional DVI & SD/HD-SDI

Outputs
- 2 x Scaled up to 1400 x 1050 (SXGA+ & D-ILA),
- Optional TV: SDI, YUV, Y/C, CV

Effects
- Fading, titling, PIP with borders, wipes, cut, Seamless Switching
- Hi-Res. logo inserter & frame store
- Vertical or horizontal Edge Blending (optional)

Technical Specifications

8 Universal Inputs
- **Composite Video**
  NTSC = 15.735 kHz/60 Hz
  PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)**
- **Component** (YUV) 525/625L
- **RGB/S** (TTL or 0.3V Analog)
- **RGsB** (SOG: 0.3V Analog)
- **Computer** (RGB HV, RGB/S et RGsB): PC, Mac, Wkst, automatic synchro. & centering, resolution from 640x480 to 1600x1200 (up to 110 kHz)
- **HDTV**: Component (HD-YUV 3 level sync)
  1080i/60/50Hz, 720p/60Hz, 480p/60Hz
- EVX8022HD features: SD/HD-SDI - 4:2:2 (10 bits) & DVI-D up to UXGA

Display Output
- 2 x MAIN / Out 1
- 2 x PREVIEW / Out 2
- RGB HV, RGB/S or RGsB (H&V separated, Composite sync. or SOG)
- RGB = 0.7V p/p (75 Ohms load)
- Output resolution:

PC 4/3: SVGA, XGA, SXGA, SXGA+, D-ILA
PC 16/9: 52x480, 1365x768, 720p, 480p
Options: SDTV (15kHz): SDI ,YUV , S.Video, Composite NTSC/PAL

User Controls
Fully equipped front panel:
- 4 line LCD screen with intuitive menu for complete in/out set up and image control
- High quality buttons for direct access to:
  - Input selection
  - User programmable transition effect keys
  - Take
  - Freeze (Main & Preview)
  - Logo, image & H&V PIP position

Full control by additional remote keypad or provided software

Logos and Frame Stores
- 8 logos & 2 frame stores
- Up to SXGA,16 million colors
- Non-volatile memory
- Flash capture of Video or Computer sources
- 256 steps keying threshold control
- Settable H&V logo position
- 2 logos allocated per input

Effects: Cut, PIP, fade, title, wipes

Input Connectors
- Input 1 to 4: on 5 x BNC
- Input 5 to 8: on HD 15F
- DVI-D + BNC: EVX8022-HD only

Output Connectors
- Main/ Out 1: 2 x HD15F
- Preview / Out 2: 2 x HD15F

Other
- RS232 serial com port for remote control and update and Tally out
- RJ 45 for TCP/IP

Power Supply
Internal, universal, automatic, 100-250 VAC; 50/60 Hz, (130 W) (UL, CSA, GS, CE), On/Off AC main switch

Supplied with
- 1 x AC power cable
- 1 x Remote control software
- 1 x User manual

Dimensions: 19", 3U
- D 16.5" x W 19" x H 5.25"
- D 420 mm x W 480 mm x H 133 mm

Weight: 8 kg (19 lbs)

Warranty: 3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

EventiX™ by **Analog Way** is a **Computer & Video Up/Down Mixer Scaler Switcher with numerous effects**: cut, wipes, fade, PIP and title, together with hi–res. logo insertion and frame store functions. Fitted with 8 universal inputs, it can be used as a Mixer or as an 8x2 scaled Matrix.

Mixer Mode

EventiX scales all sources - Video and Computer - and performs mixing and seamless switching transitions between any 2 inputs. The 2 Main outputs match the native resolution of any video-projector or Hi-Res. display device, and the Preview outputs allow to monitor the sequences before they are displayed on the main screens to avoid errors during a presentation.

EventiX features the following effects: **PIP**, **Fade**, **Title**, **Cut** and **Wipes** - see details of effects page 8.

Native Matrix Mode

EventiX switches any of the 8 inputs to 1 of the 2 or both outputs. Inputs are scaled and can be displayed with different resolutions on output 1 and 2.

Common Features in Matrix and Mixer Modes

EventiX provides a high quality image thanks to its integrated digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector and frame rate converter & follower. Each input image control can be individually set and stored in non volatile memory.

Logo Insertion and Frame Stores

Record 2 full screen images and 8 logos in 16 million colors in a non-volatile memory. Images and logo(s) can be flash captured from any Video or Computer source by keying or image cut-out.

Up to 2 logos can be allocated per input and positioned anywhere on the screen. The frame store can be used as a welcome or transition image while switching between 2 sources.

EventiX is specifically designed with a full control front panel for Hi-Res. A/V presentation displays, large events, and for the rental and installation markets. It offers a user-friendly interface and can be easily controlled & upgraded via its RS232, TCP-IP or by using the optional remote keypad.

To Control EventiX

- **Remote Control Software** (supplied)
- **Axion:** High End event Remote Console. See page 66
- **TripliX:** Event Remote Console. See page 68
- **RK8022-T:** Keypad with or without T-bar . See page 69

Axion

TripliX

RK8022-T

Cables for EventiX

> **BNC Cables from 1.8m/6ft to 20m/66ft:** Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **VGA Cables from 0.4mm/6ft to 1.8m/6ft:** Ref. 10014 10015 - 10077
> **VGA/BNC Adapter Cables in 1.8m/6ft and 3m/10ft (M/M - F/M):** Ref. 10023 - 10024 - 10025 - 10026
> **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **BNC HD-SDI Cables M/M from 3m/10ft to 30m/100ft:** Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 - 10141
> **DVI Cables from 1.8m/3ft to 70m/230 ft:** Details of references page 122

References

> EVX8022: EventiX™
- EVX8022-HD: Same with DVI and SD/HD-SDI inputs

- ARC100: Axion™*
- TRC8022: TripliX™*
- RK8022: Remote keypad*
- RK8022-T: Remote keypad with T-Bar*

* sold separetely

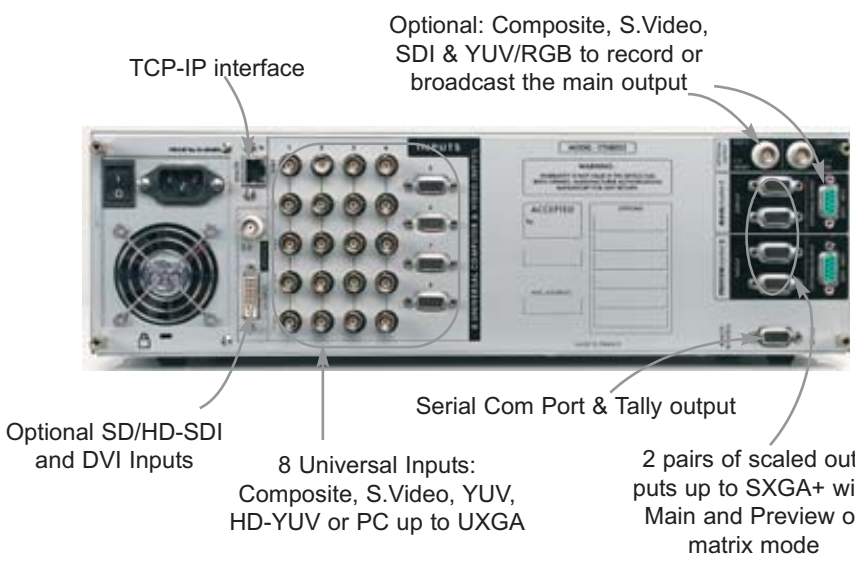
Options

- OPT-iX-SDTV-D1: SDTV , S-Video, SDI output & YUV/RGB (Main output)
- OPT-iX-A: 8 stereo audio Inputs + 1 additional
- CBD-UP: Cross Blender
- SWM-OE: Show Manager Open Edition

CentriX™

Model. CTX8022

- Hi-Res Computer and Video Seamless Switcher
- Flexibility with Two Operation Modes
- PIP and Powerful Effects
- For High Resolution A/V Presentations, Conference Rooms, Houses of Worship, Exhibition Centers



2 Operation Modes

- Mixer Seamless Switcher with Main & Preview
- 8 x 2 Hi-Res. Scaled Native Matrix

8 Universal Inputs

- Composite, S.Video, YUV, RGB, HDTV
- Computer: up to UXGA
- Optional DVI & SD/HD-SDI

Outputs

- 2 x Scaled up to 1400 x 1050 (SXGA+ & D-ILA),
- Optional TV: SDI, YUV, Y/C, CV

Effects

- Fading, Titling, Mixing, PIP, Cut (Seamless Switching)
- Hi-Res. Logo Inserter & Frame Store
- Logo(s) from Computer and Video Sources

Technical Specifications

8 Universal Inputs
- **Composite Video**: NTSC = 15.735 kHz/ 60 Hz, PAL/SECAM = 15.625 kHz/50Hz
- **S.Video** (Y/C): NTSC = 15.735 kHz/60 Hz PAL/SECAM = 15.625 kHz/50Hz
- **Component** (YUV): 15.625 kHz/50 Hz 625L, 15.735 kHz/60 Hz - 525L
- **RGB/S** (TTL or 0.3V analog), RGsB (SOG: 0.3V analog), 15.625 kHz/50 Hz - 625L 15.735 kHz/60 Hz - 525L
- **Computer** (RGB HV, RGB/S et RGsB): PC, Mac, wkst., automatic sync. & centering, res. from 640x480 to 1600x1200 (up to 110kHz)
- **HDTV**: Component (HD YUV 3 Level Sync.) 1080i/60Hz, 720p/60Hz, 480p/60Hz
- **Options**:

- SD/HD-SDI – 4:2:2 (10 bits)
- DVI-D up to UXGA

Display Outputs
- 2 x MAIN / Out 1
  2 x PREVIEW / Out 2
- RGB HV, RGB/S or RGsB (H&V separated, Composite sync. or SOG)
- RGB = 0.7V p/p (75 Ohms load)
- Output res.:

PC 4/3: SVGA, XGA, SXGA, SXGA+, D-ILA,
PC 16/9: 16/9, 852x480, 1365x768, 720p, 480p
- **Options**:

- SDTV (15kHz): SDI Component, S.Video, Composite NTSC/PAL

Audio Inputs and Outputs
Optional, see Inputs/outputs of the NatiX

User Controls
- Full control by additional remote keypad or provided software

Logos and Frame Stores
- 8 logos & 2 frame stores, up to SXGA, 16 million colors
- Non-volatile memory
- Flash capture of Video or Computer sources
- 256 steps keying threshold control
- Settable H&V logo position
- 2 logos allocated by input

Effects: Cut, PIP, fade, title, mix

Input Connectors
- Input 1 to 4: on 5 x BNC
- Input 4 to 8: on HD 15F
- DVI-I + BNC: CTX8022-HD only

Output Connectors
- MAIN / OUT 1: 2 x HD15F
- PREVIEW / OUT 2 : 2 x HD15F

Other
- RS 232 Serial com port for remote control and update and Tally
- RJ 45 for TCP/IP

Power Supply
- Internal, universal, automatic, 100-250 VAC; 50/60 Hz (130 W) (UL, CSA, GS, CE) ON/OFF AC Main switch

Supplied with
- 1 x AC power cable
- 1 x Remote control software
- 1 x User manual

Dimensions - 19", 3U
- D 16.5" x W 19" x H 5.25"
- D 420 mm x W 480 mm x H 133 mm

Weight
7.5 kg / 16.5 lbs (no option)

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

CentriX™ by Analog Way is an 8 Universal Input Computer & Video Up/Down Mixer Scaler Switcher featuring numerous effects (cut, fade, PIP, title, mix) together with hi–res. logo insertion and frame store functions. Fitted with 8 universal inputs, it can be used as an 8 x 2 scaled matrix as well as a mixer.

Native Matrix Mode

CentriX, when used as a a hi-res. matrix, allows to switch any of the 8 inputs to one of the 2 outputs. The inputs are scaled and can be displayed with different resolutions on output 1 and 2.

Mixer Mode

CentriX scales all sources – Video and Computer – and performs mixing and seamless switching transitions between any 2 inputs. It also performs various effects (PIP, fade, title, mix, cut). The 2 Main outputs match the native resolution of any video-projector or hi-res. display devices, and the Preview outputs allow to monitor the sequences before they are displayed on the main screens, avoiding errors during a presentation.

CentriX features the following effects: **PIP**, **Fade**, and **Title** - see details of effects page 8.

Common Features in Matrix and Mixer Modes

CentriX provides a high quality image thanks to its integrated digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, Time Base Corrector, Frame Rate Converter & Follower. Each input image control can be individually set and stored in non-volatile memory.

Logo Insertion and Frame Stores

True hi-res. 16 million color image defined either by keying or image cut-out: The frame store and logo(s) can be flashcaptured from any video or computer sources into a non-volatile memory. Up to 2 logos can be allocated by input and positioned anywhere on the screen. The frame store can be used as a welcome or transition image while switching between 2 sources.

CentriX is specifically designed with a blank front panel for hi-res. A/V presentation displays, conference room installations, boardrooms and exhibition centers. It offers a user-friendly interface and can be easily controlled remotely & upgraded via its RS232 or TCP/IP ports, or using the optional remote keypad. The result is dynamic, glitchfree and astonishing.

To Control CentriX

- **Remote Control Software** (supplied)
- **Axion:** High End event Remote Console. See page 66
- **TripliX:** Event Remote Console. See page 68
- **RK8022-T:** Keypad with or without T-bar. See page 69

Axion

TripliX

RK8022-T

Cables for CentriX

> **BNC Cables from 1.8m/6ft to 20m/66ft:** Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **VGA Cables from 0.4mm/6ft to 1.8m/6ft:** Ref. 10014 10015 - 10077
> **VGA/BNC Adapter Cables in 1.8m/6ft and 3m/10ft (M/M - F/M):** Ref. 10023 - 10024 - 10025 - 10026
> **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **BNC HD-SDI Cables M/M from 3m/10ft to 30m/100ft:** Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 - 10141
> **DVI Cables from 1,8m/3ft to 70m/230 ft:** Details of references page 122

References

- **CTX8022**: CentriX™
- **CTX8022-HD**: Same as above with DVI and SD/HD-SDI inputs

- **ARC100:** Axion™*
- **TRC8022:** TripliX™*
- **RK8022**: Remote keypad*
- **RK8022-T**: Remote keypad with T-Bar*

* sold separetely

Options

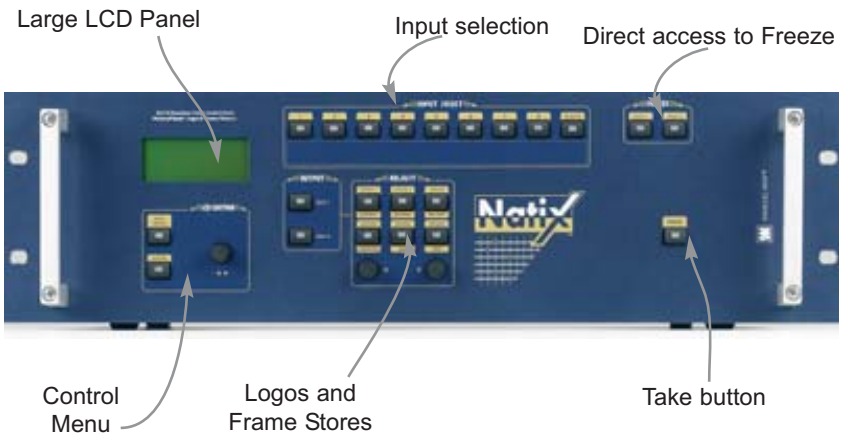
- **CBD-UP**: Cross Blender
- **SWM-OE**: Show Manager Open Edition
- **OPT-SDTV-iX-D1**: SDTV, S.Video, SDI output & YUV/RGB for Main output
- **OPT-A**: Audio card for iX family

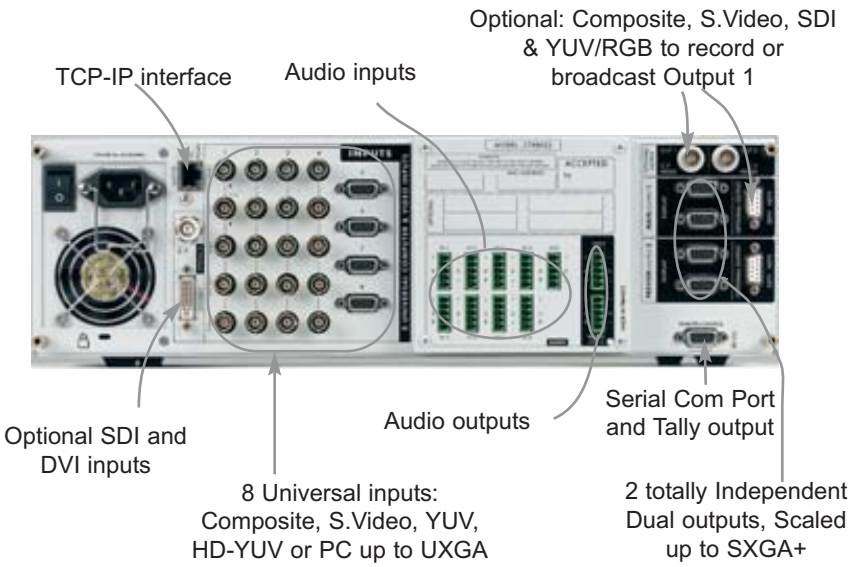
NatiX™

NatiX™

Model. NTX8022

- 8 x 2 Scaled Matrix with Native Hi-Res Output
- High Resolution Logo Insertion and Frame Store
- Dedicated to High Resolution Presentations in Boardrooms and Conference Rooms





8 Universal Inputs

- NTSC/PAL/SECAM, S.Video, YUV, RGB, HDTV
- Computer up to UXGA
- Optional DVI & SD/HD-SDI

Outputs

- 2 x Scaled up to 1400 x 1050 (SXGA+ & D-ILA)
- Video output*: Component, RGB/S, S.Video & SDI, Composite Video

Effects

- Hi-Res. Logo Inserter & Frame Store, Ultra Smooth Seamless Switching

Audio Stereo

- 8 + 1 Audio Inputs & 2 Outputs

*Optional

Technical Specifications

8 Universal Inputs
- **Composite, S.Video,** NTSC = 15.735 kHz/ 60 Hz, PAL/SECAM = 15. 625 kHz/50Hz
- **Component** (YUV) 60/50 Hz -525/625L
- **RGB/S** (TTL or 0.3V analog) RGsB (SOG: 0.3V analog)
- **Computer** (RGB HV, RGB/S et RGsB): PC, Mac, Wkst., automatic synchro. & centering resolution from 640x480 to 1600x1200 (up to 110KHz)
- **HDTV**: Component (HD YUV 3 Level sync.) 1080i/60/50Hz, 720p/60Hz, 480p/60Hz
- **NTX8022A-HD** (only) features:

- SDI - 4:2:2 (10 bit) HD-SDI
- DVI-D up to UXGA

Display Outputs
- 2 x 2 outputs: Out 1 & Out 2 (independant)
- RGB HV, RGB/S or RGsB
- RGB = 0.7V p/p (75 Ohms load)
- Output res.:

PC 4/3: SVGA, XGA, SXGA, SXGA+, D-ILA,
PC 16/9: 852x480, 1365x768, 720p, 480p
- **Options**: SDTV (15kHz): SDI, YUV, S.Video, Composite NTSC/PAL

Audio Inputs
- 8 stereo inputs
- 1 auxiliary input
- Vi= + 18 dBu
- Zi= 20k Ohms unbalanced
- Zi= 40k Ohms balanced
- Adjustable level per input

Audio Outputs
- 2 independent outputs
- Stereo or mono
- Vo max= 18dBu unbalanced
- Vo max= 24dBu balanced
- Zo= 300 Ohms unbalanced
- Zo= 600 Ohms balanced

User Controls
- Fully equipped front panel
- 4 Line LCD display with intuitive menu for complete set up and image control
- Buttons for direct access to input selection, take, freeze, logos, etc…

Input Connectors
- Input 1 to 4: on 5 x BNC
- Input 5 to 8: on HD 15F
- DVI-D + BNC: NTX8022A-HD only

Output Connectors
- OUT 1: 2 x HD15F
- OUT 2: 2 x HD15F

Other
- RS 232 serial com port for remote control and update and Tally
- RJ 45 for TCP/IP control

Power Supply
- Internal, universal, automatic, 100-250 VAC; 50/60 Hz, (130 W) (UL, CSA, GS, CE) ON/OFF AC Main switch

Supplied with
- 1 x AC power cable
- 1 x remote control software
- 1 x user manual

Dimensions - 19", 3U
- D 16.5" x W 19" x H 5.25"
- D 420 mm x W 480 mm x H 133 mm

Weight: 8 kg / 19 lbs (no option)

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

NatiX™ by **Analog Way** is an **8x2 Hi-Res Scaled Native Matrix** with 8 universal inputs and different resolutions on each output. **NatiX** performs Ultra Smooth and fast switching transitions with no artifacts (independantly on the 2 outputs). The switching or transition can be performed with a fading effect, using a color, black, or one of the two images saved as a frame store. **NatiX** features logo insertion and frame store functions. **NatiX** can switch any of the 8 inputs to 1 or 2 outputs. The scaled inputs can be displayed on output 1 and/or 2 with different resolutions.

NatiX provides a high quality image thanks to its auto pixel clock, digital decoder, state of the art 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector and frame rate converter & follower. Each input image control can be individually set up and stored in non-volatile memory.

Logo Insertion and Frame Store

Record 2 full screen images and up to 8 logos in 16 million colors using a non-volatile memory. Images and logo(s) can be flash captured from any video or computer source by keying or image cut-out. Up to 2 logos can be allocated per input and positioned anywhere on the screen. The frame store can be used as a welcome or transition image while switching between 2 sources.

Audio Input/output

NatiX features 8 balanced stereo inputs and 2 balanced stereo (+ mono) outputs, and 1 auxiliary input mixed (not switched) with the 8 inputs with settable levels and master volume.

NatiX is specifically designed for hi-res A/V presentations, boardrooms and exhibition centers. **NatiX** offers a user-friendly interface with its front panel control, its large 4 line LCD display, and its Windows compatible software supplied. Equipped with an IP interface, it can easily be integrated in an Ethernet network. It can also be controlled & upgraded via its RS232, TCP IP or by using the optional remote keypad. **NatiX** offers exceptional image quality with great flexibility for glitchfree and professional presentation.

To Control NatiX

- **Remote Control Software** (supplied)
- **Axion:** High End event Remote Console. See page 66
- **TripliX:** Event Remote Console. See page 68
- **RK8022-T:** Keypad with or without T-bar . See page 69


Axion


TripliX


RK8022-T

Cables for NatiX

> **BNC Cables from 1.8m/6ft to 20m/66ft:** Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **VGA Cables from 0.4mm/6ft to 1.8m/6ft:** Ref. 10014 10015 - 10077
> **VGA/BNC Adapter Cables in 1.8m/6ft and 3m/10ft (M/M - F/M):** Ref. 10023 - 10024 - 10025 - 10026
> **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **BNC HD-SDI Cables M/M from 3m/10ft to 30m/100ft** Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 - 10141
> **DVI Cables from 1,8m/3ft to 70m/230 ft:** Details of references page 122

References

- **NTX8022A:** NatiX™
- **NTX8022A-HD:** Same as above with DVI & SD/HD-SDI Inputs

- **ARC100:** Axion™*
- **TRC8022:** TripliX™*
- **RK8022:** Remote keypad*
- **RK8022-T:** Remote keypad with T-Bar*

* Sold separately

Options

- **OPT-iX-SDTV-D1:** SDTV , S-Video, SDI output & YUV/RGB for output 1 and/or 2
- **SWM-OE:** Show Manager Open Edition

Cross Blender™

Model. CBD-UP

- Horizontal or Vertical Edge Blending Add-on
- Creation of a Horizontal or Vertical Wide Screen
- Full Adjustment of Overlapping Area
- Adjustment of the Brightness Level of the Projectors on the Overlapping Regions

Cross Blender™ by Analog Way

can edge blend up to 16 video projectors with 16 **Di-VentiX™** or **EventiX™**, either vertically or horizontally. Video and Computer background sources, including those in the PIP windows, are processed in real time and with no visible delay even when using a live camera. All functions can be independently configured to your specific needs.

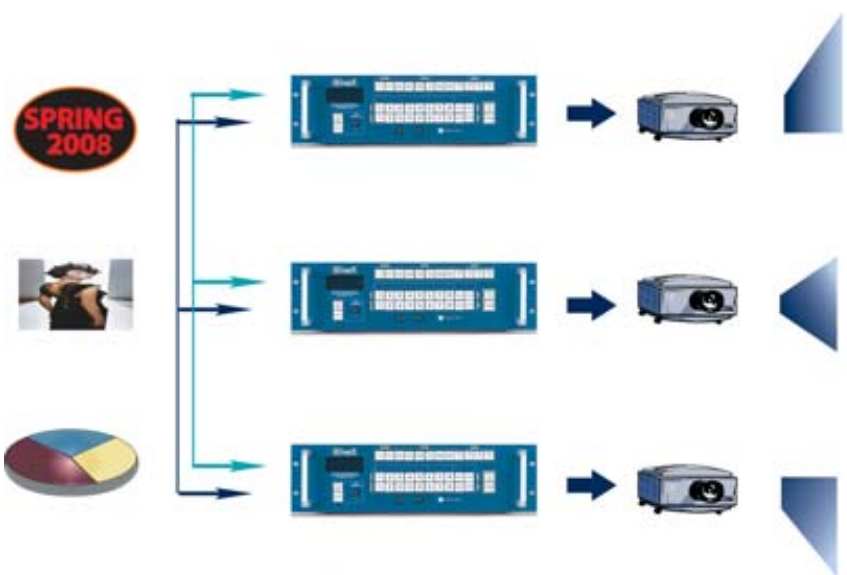
Cross Blender enables, in real time, to cut, blend and position the video or computer images on overlapping regions, with no additional hardware. It enables background image and PIP cut out and is very quickly and easily installed.

Reference

> **Cross Blender:** CBD-UP

Packages

- **SMCBx2** = 2 x Cross Blender (CBD-UP) + 1 Show Manager Open Edition (SWM-OE)
- **SMCBx3** = 3 x Cross Blender (CBD-UP) + 1 Show Manager Open Edition (SWM-OE)



Specifications subject to change without notice

Application Notes for the iX Range

Soft-Edge Blended Presentation with 3 Di-VentiX or EventiX

PRINCIPLE

- Create an animated wide screen with 3 video-projectors,
- Display up to 3 PIPs, from Video or Computer sources, on the background image or on the overlapping areas. In this example, 2 Live PIPs are displayed, including one on the overlapping area.

CONNECTIONS

Sources are distributed through an iX Mate to each switcher. This enables to control the background image, the PIPs, and the switching operations.

SWITCHING OPERATION

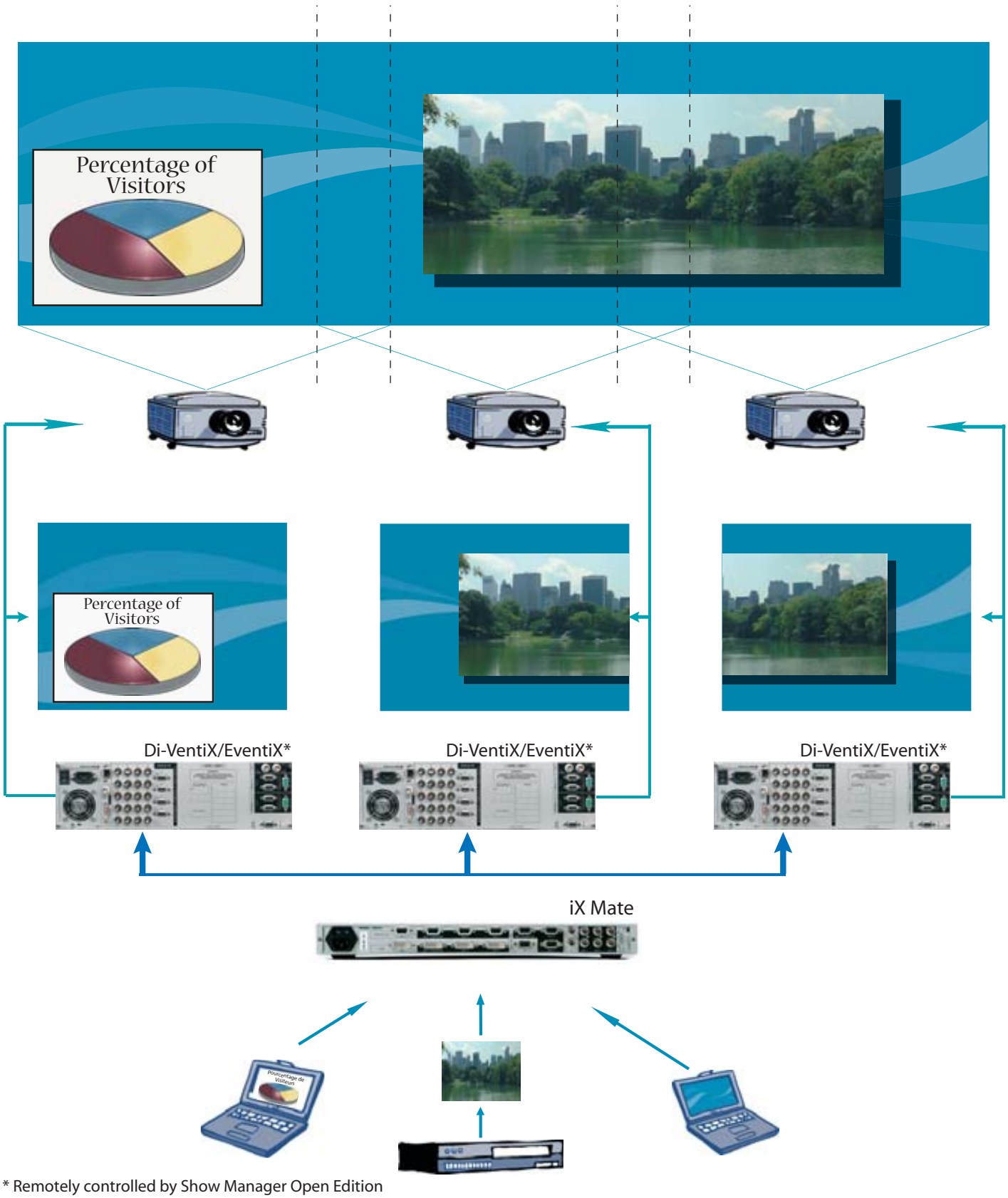
The Show Manager OE software controls all the Switchers. It allows the creation of a script of the sources to be displayed. Each effect can be launched simultaneously or independently through Show Manager OE or Di-VentiX/EventiX itself. No other hardware is required.

EQUIPMENT REQUIRED

- 3 x EventiX/Di-VentiX
- 1 x Show Manager OE
- 3 x Cross Blender Firmware upgrades
- 1 x iX Mate
- 3 x Projectors
- Computer & Video sources according to the application.

NOTE: Background and PIP set up

The Di-VentiX/EventiX process the image cut out, the overlay and the edge-blending of both background and PIP images. The background can be changed seamlessly with effects and the PIP can be positioned and sized anywhere on the screen.



* Remotely controlled by Show Manager Open Edition

High Quality Dual PIP over a Live Background with Two Di-VentiX

PRINCIPLE

- Create a multi-layer presentation with dual PIP and live background
- Di-VentiX #1 is used to create a first PIP on a live background,
- Di-VentiX #2 will add a 2nd PIP onto this first image,
- The use of Digital sources (DVI and SD/HD-SDI) combined with the Digital outputs of the Di-VentiX allows to obtain the best image quality, even when daisy chaining the 2 Di-VentiX.

CONNECTIONS

Sources used in PIP	to	Di-VentiX 1: Input #1 to #8 (including SD/HD-SDI and DVI)
	to	Di-VentiX 2: Input #2 to #8 (including SD/HD-SDI and DVI)
Background source	to	Di-VentiX 1: Input #1 to #8 (including SD/HD-SDI and DVI)
Main output of Di-VentiX 1	to	Di-VentiX 2: Input #1 (including SD/HD-SDI and DVI)

Axion, TripliX or PC with Show Manager OE is connected via serial RS232 to both Di-VentiX #1 and #2.

SWITCHING OPERATION

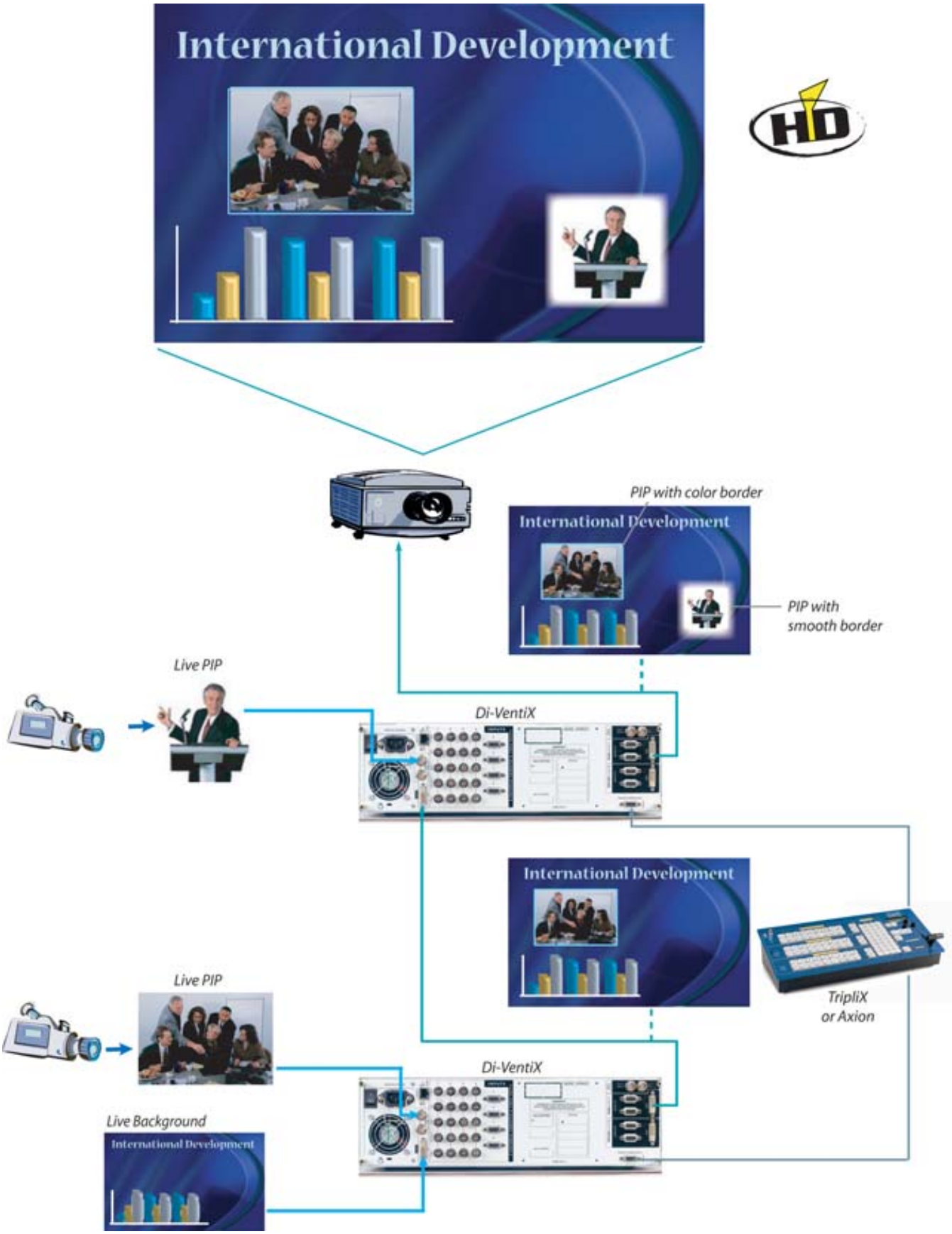
- **On Di-VentiX #1**
  - Select the background source and “take” to display it on the main output,
  - Select one source for the first PIP,
  - Select “PIP holding” effect and press “take”,
  - One PIP on a background is now displayed on the main output of Di-VentiX #1.
- **On Di-VentiX #2**
  - Select input #1 (receiving the image from main output of Di-VentiX #1),
  - Select “cut/fade/wipe” effect,
  - Switch input 1 by pressing “take”,
  - Select input source for the 2nd PIP,
  - Select “PIP holding” effect and press “take”,
  - The background image with the 2 PIPs is now displayed on the main output of Di-VentiX #2.

An Axion, TripliX or Show Manager Open Edition is used to control the two Di-VentiX at the same time. All sources connected to Di-VentiX #1 can be used both for PIP or background with 1 or 2 PIPs. Sources connected to Di-VentiX #2 can be used for a background with one PIP.

EQUIPMENT REQUIRED

- 2 x Di-VentiX,
- 1 x Axion, TripliX or Show Manager Open Edition,
- Sources: up to 15,
- 1 x Projector.

NOTE 1: In this application, Di-VentiX #2 must be in follow mode on Di-VentiX #1. Both units must have the same output format matching the native Matrix of the projector.
NOTE 2: if a video needs to be displayed, it is recommanded to set the Di-VentiX #1 in follow mode on one of the video sources. In addition, genlocking all video sources together would be the perfect configuration.


International Development
PIP with color border
International Development
PIP with
smooth border
Live PIP
Di-VentiX
International Development
TripliX
or Axion
Live PIP
Di-VentiX
Live Background
International Development

NatiX or Di-VentiX, EventiX and CentriX in Matrix mode Switch and Scale your sources independently or simultaneously on 2 separate display devices

PRINCIPLE

- Centralize the configuration and the operation of 2 screens from one single ***iX*** device,
- Centralize all sources on one unit with no need for additional distribution,
- Match the native resolution of each display,
- The iX device used is configured in Native Matrix mode,
- Any source can be displayed on any screen,
- Sources can be switched glitchfree on both outputs either simultaneously or independently.

CONNECTIONS

- Output 1 is connected to a projector in SXGA+ resolution (for example),
- Output 2 is connected to a plasma display with WXGA resolution (for example),
- Up to 8 Computer and Video sources can be connected to the device,
- A control laptop and/or the remote control unit can be connected to the ***iX*** device through RS232 or TCP/IP.

SWITCHING OPERATION

- In order to switch on each screen between any 2 sources, the commands can be sent directly from the front panel (except for CentriX) or through the remote control sofware or a console,
- The sources will be switched through back or any color, a captured frame or with a clean cut effect.

EQUIPMENT REQUIRED

- 1 x NatiX, Di-VentiX, CentriX or EventiX,
- 2 x Displays (ex. 1 projector and 1 plasma screen),
- Up to 8 Computer and/or Video sources,
- A remote control unit and/or a laptop with the remote control software (optional when using Natix, EventiX or Di-VentiX)

1400x1050 pixels - 4/3 Format
PowerPoint presentation

1365x768 pixels - 16/9 Format
Live Video display

Di-VentiX, EventiX or CentriX

Up to 8 logos stored in non-volatile memory

RK8022-T

High Quality Dual Live PIP over a Soft-Edge Blended Background Using One Di-VentiX

PRINCIPLE

- Make a cost effective High-End presentation with several sources displayed at once on a panoramic screen,
- Make this presentation easy to set up and to operate with one single Switcher:
  - The Di-VentiX is set up in “Embedded soft-edge blend” mode,
  - Di-VentiX drives 2 video-projectors for horizontal (or vertical) soft edge,
  - Up to 3 full frame images are stored in the Di-VentiX non volatile memory, for the background,
  - Up to 8 sources are connected to the Di-VentiX (PC/HDTV/Video - Analog or Digital) for the content of the 2 PIPs.

Note: The background image will be stretched when displayed on the large multi-screen. To preserve the right aspect ratio of this image, we recommend to store compressed images.

CONNECTIONS

Sources used in PIP	to	Input #1 to #8 (including SD/HD-SDI and DVI)
Top or right projector	to	Main output
Bottom or left projector	to	Preview output

OPERATING MODE

- Set up the Di-VentiX in embedded SEB* mode,
- Adjust the SEB,
- Store the frames (up to 3). The sources used for storing the frames should be extended,
- Select a “Double PIP” holding effect and press “Take”: The frame store is displayed,
- Select a source on the main input row and press “Take” to display it into the first PIP,
- Select a source on the preview input row and press “Take” to display it into the second PIP.

Note: The PIP can be displayed in background (select Inlay=Yes in the PIP effect adjustment menu).
Note: A PIP source can be displayed on the covering area, only one PIP at a time is available in this configuration.

SWITCHING OPERATION

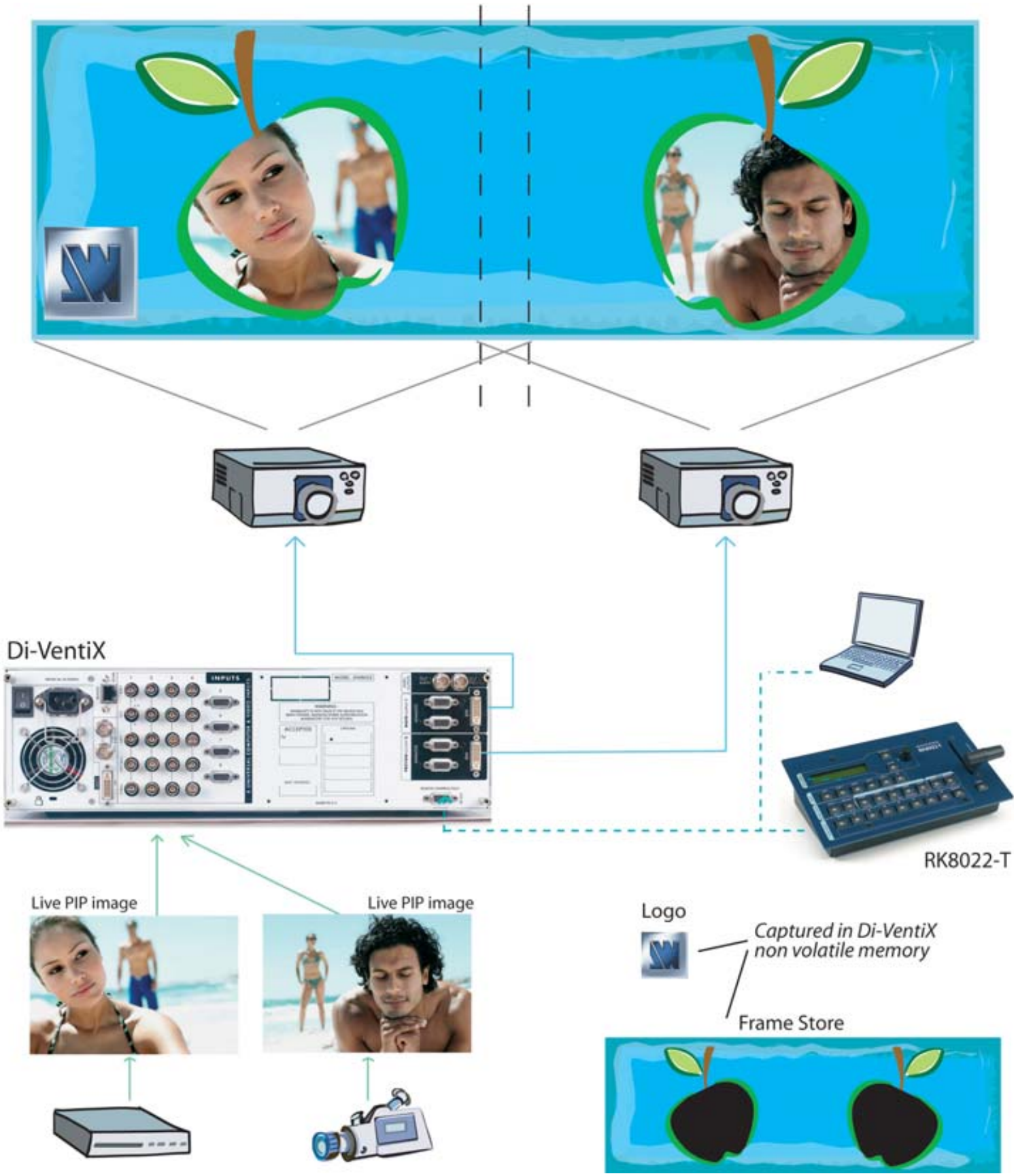
- To change a source into a PIP: Select a source on the corresponding input row and press “Take”,
- To change the background frame: Select directly the needed frame in the PIP effect menu adjustement.

EQUIPMENT REQUIRED

- 1 x Di-VentiX,
- Up to 8 sources,
- 2 x Video-projectors.

Note: The Di-VentiX can be operated directly form the front panel or through RS232 or TCP/IP using the keypad RK8022-T or our control softwares: Di-VentiX control software, Show Manager OE or Manager Stage.

* SEB: Soft Edge Blending


Di-VentiX
RK8022-T
Live PIP image
Live PIP image
Logo
Captured in Di-VentiX
non volatile memory
Frame Store

Square Projection with High Brightness using One Di-VentiX

PRINCIPLE

- A cost-effective solution to replace 4 projectors with horizontal and vertical soft edge blending or 1 LED wall screen, and still obtain a 1:1 aspect ratio image.

CONNECTIONS

The Di-VentiX is used in vertical Soft-Edge Blending mode with two 16/9 matrix projectors to display a 1:1 aspect ratio image. For example: Two projectors with a 1920x1080 matrix used in SEB mode (with a 20% covering) allow to obtain a 1920x1944 resolution projected image.

- Computer & Video sources to input #1 to #8 connectors of the Di-VentiX (including SD/HD-SDI & DVI)
- Top projector to the MAIN/OUT 1 connectors of the Di-VentiX
- Bottom projector to the PREVIEW/OUT 2 connectors of the Di-VentiX

The displayed image can be:

- A live image with one or two logos,
- A still background image and one live image into a PIP placed across the area covered by the two projectors,
- A still background image and two live images into PIPs placed on the top & bottom of the image.

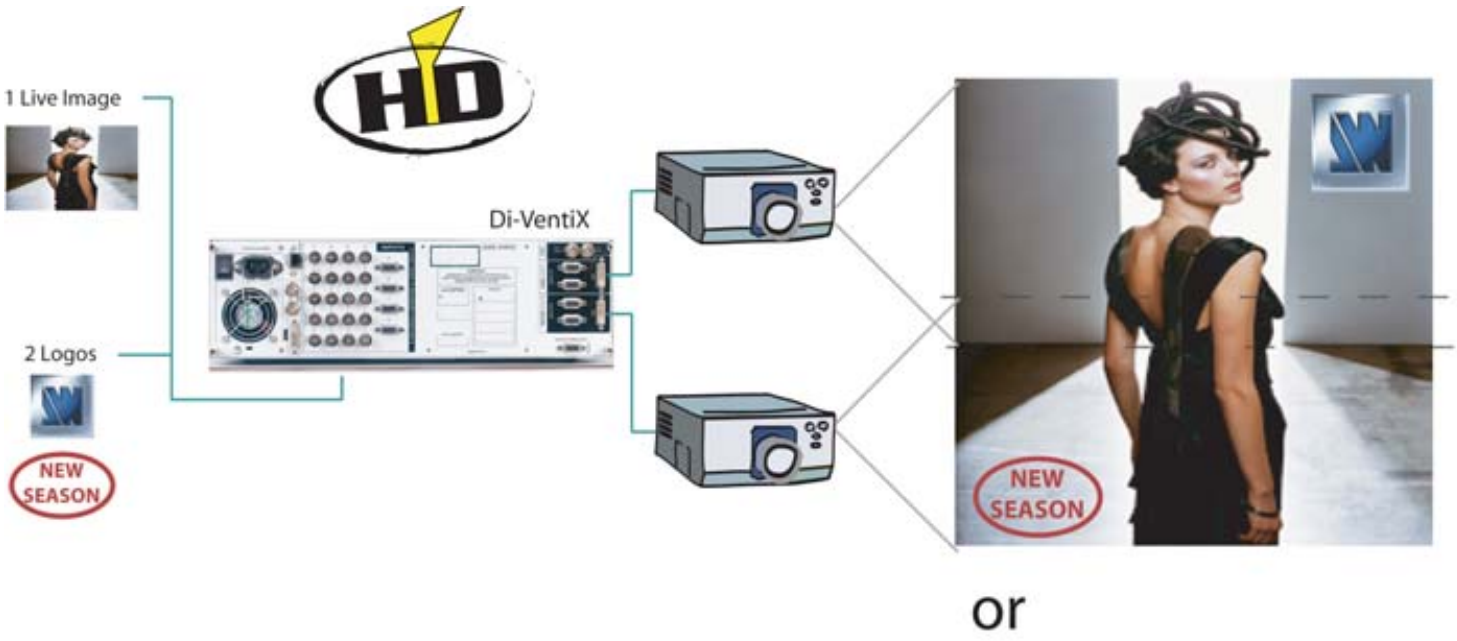
NOTE: The background image will be stretched when displayed on the multi-screen. To preserve the right aspect ratio of the image, you should provide a compressed image to the Di-VentiX. The aspect ratio of the PIPs can be controlled by the Di-VentiX itself.

SWITCHING OPERATION

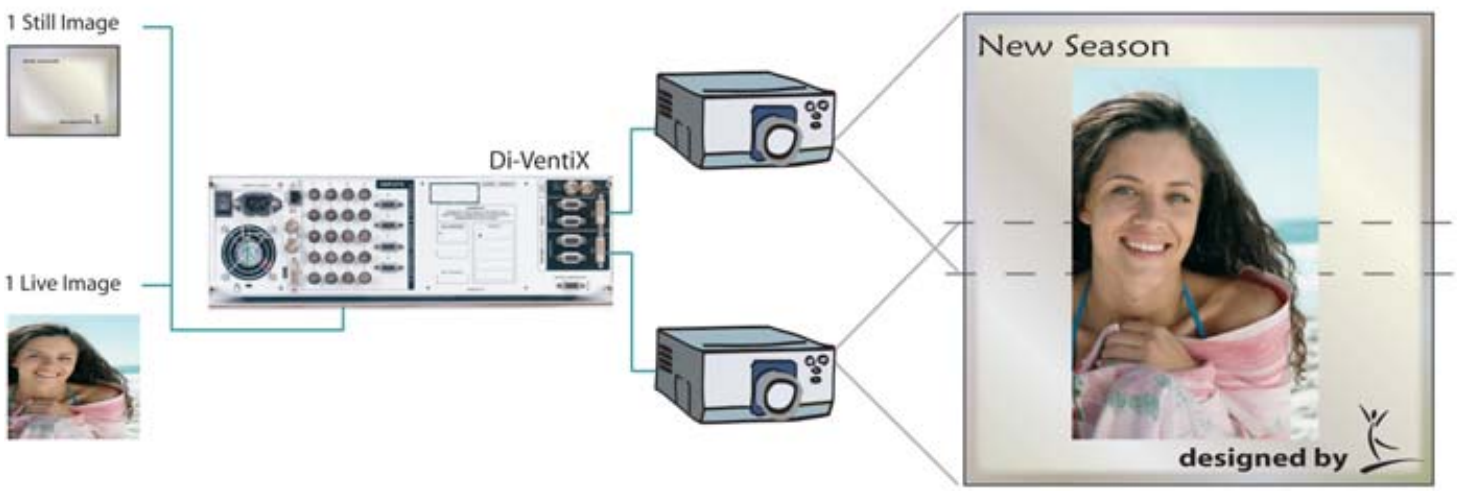
- The still background image (frame store) can be switched seamlessly between the 3 Frame Stores,
- The transition into the PIP operates with a fade to black or to color.

EQUIPMENT REQUIRED

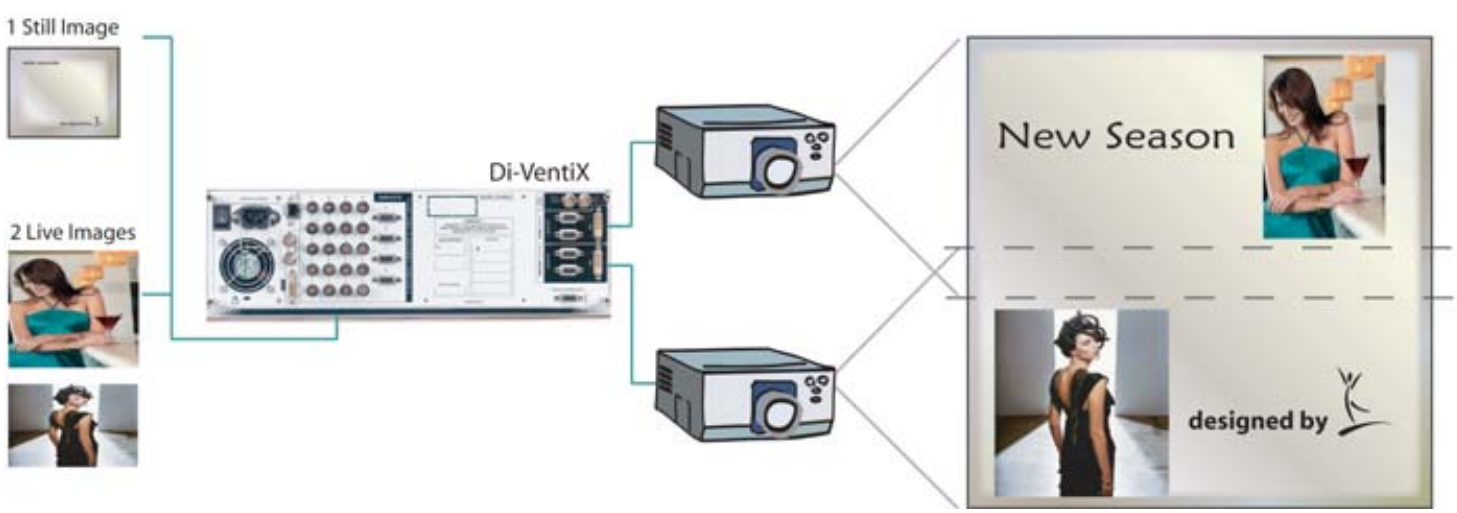
- 1 x Di-VentiX
- Up to 8 sources
- 2 x 16/9 Projectors


1 Live Image
2 Logos
NEW SEASON
Di-VentiX
NEW SEASON

or


1 Still Image
1 Live Image
Di-VentiX
New Season
designed by

or


1 Still Image
2 Live Images
Di-VentiX
New Season
designed by

Multi-Screen Presentation: One Central & Two Lateral Screens

PRINCIPLE

- Two EventiX are used in Soft Edge Blending mode to create the large central screen
- One Di-VentiX is used in Embedded Soft Edge mode with no covering area, to create the left and right screens
- All iX Switchers are controlled with Axion, Show Manager Open Edition or TripliX console

This application allows to display:

- On the central screen: a live background and a live image into a PIP placed in the area covered by the 2 central projectors
- On the left & right screens: a still background and a live image into a PIP

CONNECTIONS

• Computer & Video sources	to	input #1 to #8 connectors of the Di-VentiX
• Outputs of the Universal Booster	to	input #1 to #8 connectors of the 2 EventiX
	to	input #1 to #8 connectors of the Universal Booster
• Left projector	to	MAIN/OUT 1 connector of the Di-VentiX
• Right projector	to	PREVIEW/OUT 2 connector of the Di-VentiX
• Central projectors	to	MAIN output connectors of the 2 EventiX

SWITCHING OPERATION

- **On the Central Screen:**

The transition of the live background and the transition of the live image into the PIP operate with a fade to black or to color.

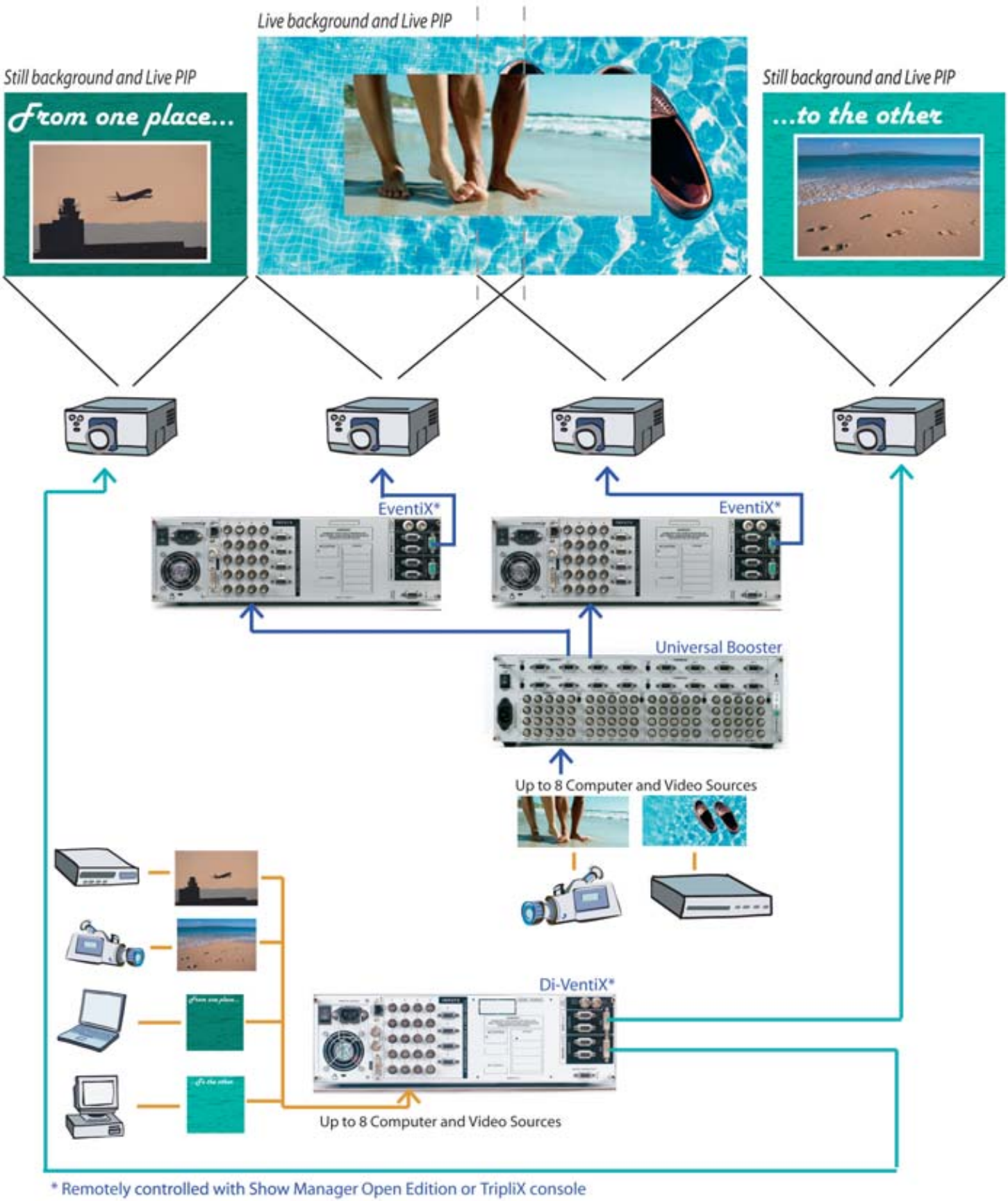
- **On the Left and Right screen:**

The still background image (frame store) can be switched seamlessly between the 3 pairs of frame stores. The transition of the live image in the PIP operates with a fade to black or to color.

NOTE 1: The still background image of the left & right screens can be different as also the live image into the PIP.
NOTE 2: The live background image of the central projection will be stretched when displayed on the multi-screen. To preserve the right aspect ratio of the image, you should provide a compressed image. The aspect ratio of the PIPs can be controlled by the EventiX itself.

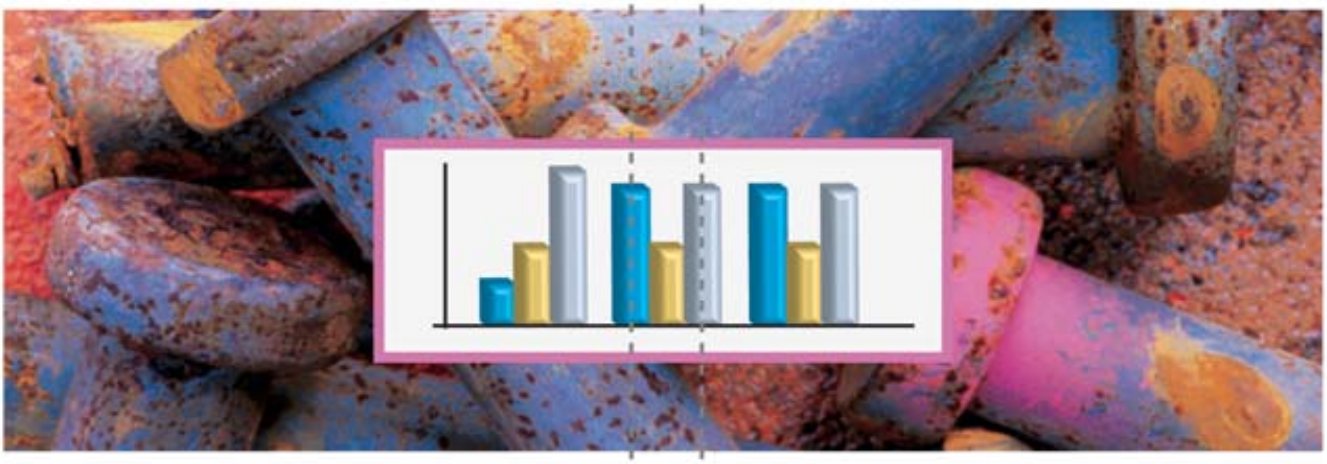
EQUIPMENT REQUIRED

- 2 x EventiX with Cross Blender
- 1 x Di-VentiX
- 1 x Universal Booster
- 1 x Show Manager Open Edition
- Up to 16 sources
- 4 x Projectors



* Remotely controlled with Show Manager Open Edition or TripliX console

Examples of what you can do with 2 Di-VentiX and 2 video-projectors



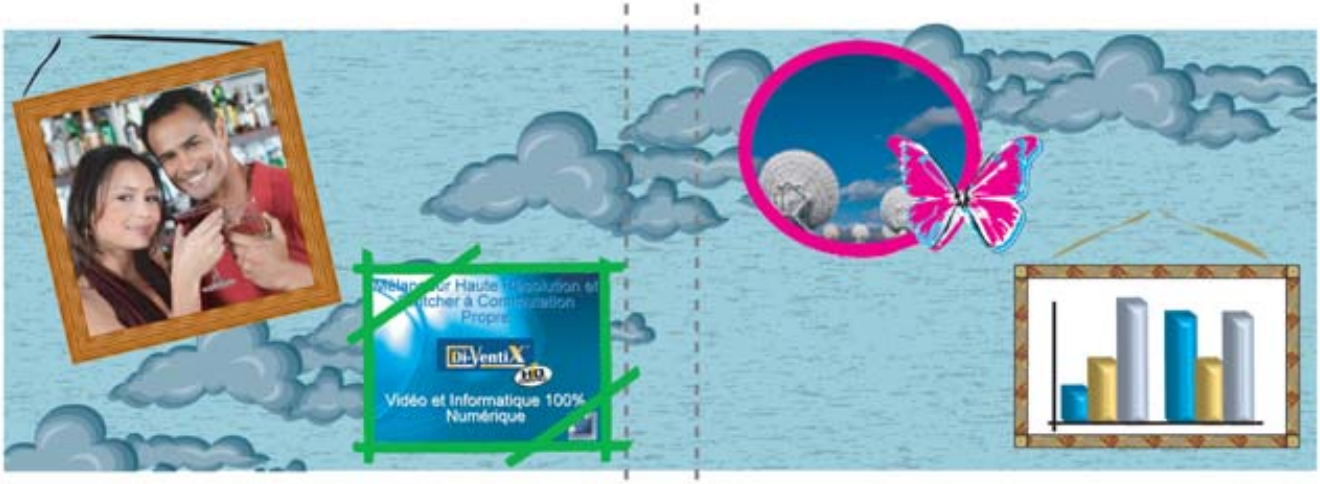
Live Background and 1 Live Video or Computer PIP Image - Soft-Edge Blended Presentation

Screen 1

Screen 2

Moving PIP

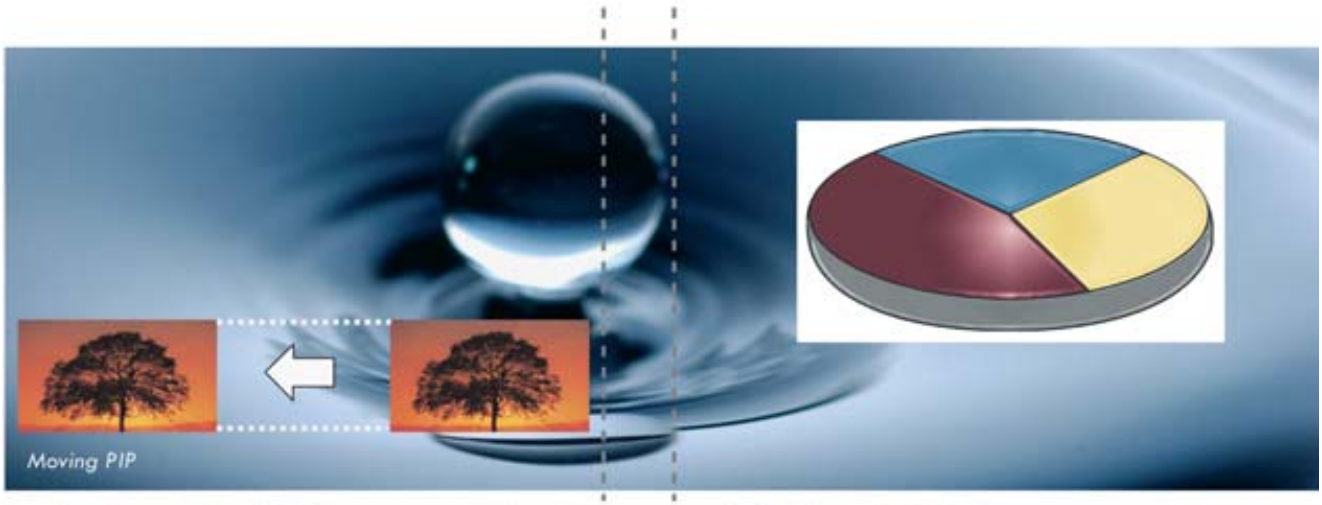
2 Independent Screens with Different Live Backgrounds and Live Computer or Video PIPs



Still Background and 4 Live Computer or Video Images - Soft-Edge Blended Presentation

Live Background with 1 PIP Image and 2 Logos - Soft-Edge Blended Presentation

Live Background with 1 PIP image and 1 title - Soft-Edge Blended Presentation



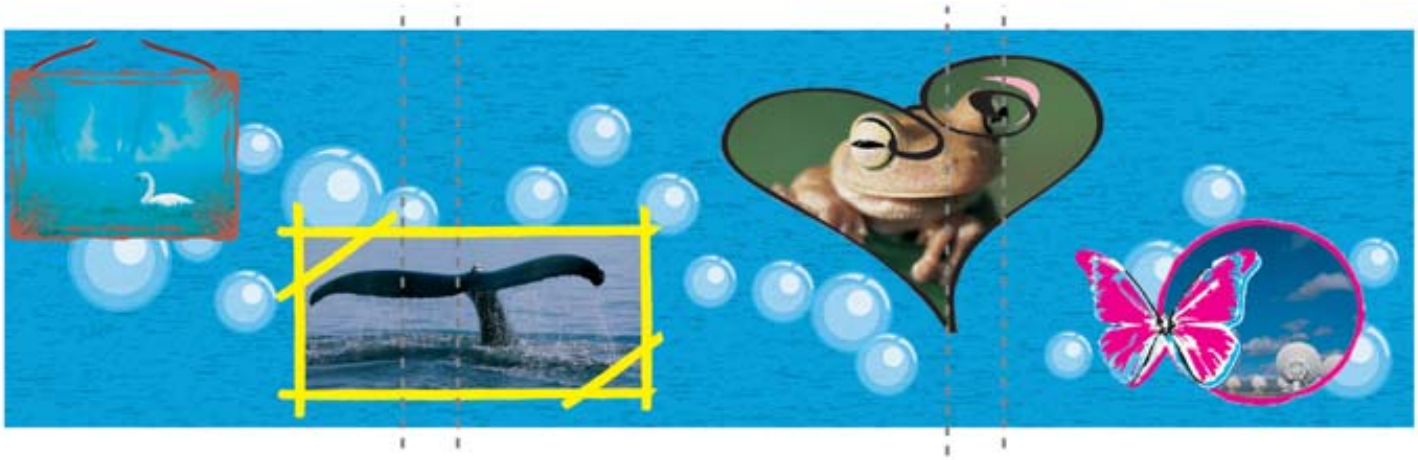
Live background and 2 Computer or Video PIP Images - Soft-Edge Blended Presentation

Examples of what you can do with 3 Di-VentiX and 3 video-projectors

Live Background and Live Computer or Video PIP Image - Soft-Edge Blended Presentation

Live Background and 2 PIP Live Computer or Video Images - Soft-Edge Blended Presentation

Live Background and 3 PIPs with Live Computer or Video Image - Soft-Edge Blended Presentation



Still Background and 4 PIPs - Soft Edge Blended Presentation

Still Background and 3 PIPs - Soft Edge Blended Presentation

Still Background and 6 PIPs - Soft Edge Blended Presentation

Product Comparison: Analog Way Seamless Switchers

	Octo Vue FX	Octo Vue Fade	Octo Vue	Octo FX²	Octo Fade²	Octo Plus²	Quattro Vue	Quattro FX	Quattro D	Quattro	Easy Fade	Easy Cut
Transition Effects												
PIP	✓	✓	✓				✓					
Cross Fade	✓	✓		✓	✓			✓			✓	
Titling	✓	✓		✓	✓			✓			✓	
Cut - Seamless Switching	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
Clean Cut - Smooth Switching	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Inputs												
# of Universal Inputs (total)*	8	8	8	8	8	8	4	4	4	4		
# of Video Inputs	8	8	8	8	8	8	4	4	4	4	4	4
# of Computer Inputs	8	8	8	8	8	8	4	4	4	4	3	3
Automatic Set up	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Automatic Standard Detection (NTSC - PAL - SECAM)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DVI-D	1	1	1	1	1	1	1	1	1	1		
Outputs												
Preview — 1024x768 (XGA)	✓	✓	✓				✓					
Main — # of Outputs (total)	3	3	3	3	3	3	2	2	2	1	1	1
Res. — up to 1600x1200 (UXGA) & 1920x1080p (HDTV)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Type and Sync — DVI	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Type and Sync — Computer RGBHV - RGBS - RGsB (SOG)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Type and Sync — Frame Rate Conversion	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Type and Sync — Follow Mode (same as input frame rate)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Adjustment and Control of images or inputs												
Auto Centering (Auto Pixel/Phase)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Horizontal and vertical positionning and sizing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Memory Presets (Input/Output)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Input Aspect Ratio (4/3 - 16/9 - anamorphic)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Freeze	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zoom	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Brightness - contrast - colour - tint (NTSC)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sharpness	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Black level	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Horizontal Smooth	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Logos and Frame Stores												
# of Full Frame Stored	4			4				4			1	1
# of Logos Stored	8			8				8				
# of Animated Logos	1			1				1				
Other Features												
Test Patterns	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Audio Stereo	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Remote Control Keypad (sold separately)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Remote Control by RS232 + 2nd for video projector	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LAN Control (TCP/IP) - optional	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stand By Mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rack Mountable	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

*: Universal Inputs accepting Composite, PAL or NTSC, S.Video,YUV, RGBS, RGsB, RGBHV, Computer up to UXGA or 1080p, HD-YUV 1080i, 720p, 1080p signals.

Seamless Switchers

Octo Vue FX

New! p. 40

> Hi-Res Presentation A/V Scaler / Seamless Switcher
> Features Scaled Preview and Hi-Res Picture in Picture, Animated or Still Logo, Fade, Titling, Cut and Frame Store
> Analog and Digital Inputs/Outputs up to 1080p and 1600x1200

Octo Vue Fade

New! p. 42

> Hi-Res Presentation A/V Scaler / Seamless Switcher
> Features Scaled Preview and Hi-Res. Picture in Picture, Cut, Fade, Titling
> Analog and Digital Inputs/Outputs up to 1080p and 1600x1200

Octo Vue

New! p. 44

> Hi-Res Presentation A/V Scaler / Seamless Switcher
> Features Scaled Preview and Hi-Res. Picture in Picture
> Analog and Digital Inputs/Outputs up to 1080p and 1600x1200

Octo FX^2

New! p. 46

> Hi-Res Scaler / Seamless Switcher
> Animated or Still Logo, Fade, Titling, Cut and Frame Stores
> 8 Universal Inputs with DVI In and Out up to 1080p and 1600x1200

Octo Fade^2

New! p. 48

> Hi-Res Scaler / Seamless Switcher
> Transition Effects: Cut, Fade and Titling
> 8 Universal Inputs with DVI In and Out up to 1080p and 1600x1200

Octo Plus^2

New! p. 50

> Hi-Res Scaler / Seamless Switcher
> 8 Universal Inputs with DVI In and Out up to 1080p and 1600x1200

Quattro Vue

New! p. 52

> Hi-Res Scaler / Seamless Switcher
> Features Scaled Preview and Hi-Res. Picture in Picture
> 4 Universal Inputs with DVI In and Out up to 1080p and 1600x1200

Quattro FX

New! p. 54

> Hi-Res Scaler / Seamless Switcher
> Animated or Still Logo, Fade, Titling, Cut and Frame Stores
> 4 Universal Inputs with 1 DVI In and Out up to 1080p and 1600x1200

Quattro D

New! p. 56

> Hi-Res Scaler / Seamless Switcher
> 4 Universal Inputs with 1 DVI
> DVI In and Out up to 1080p and 1600x1200

Quattro

New! p. 58

> Hi-Res Scaler / Seamless Switcher
> 4 Universal Inputs
> Input/Output up to 1080p and 1600x1200

Easy Fade

New! p. 60

> High Resolution Video Seamless Switcher/Scaler with Audio
> Effects: Cut, Fade, Titling between Computer and Video sources
> User-friendly - Direct Access to Main Functionalities

Easy Cut

New! p. 62

> High Resolution Video Seamless Switcher/Scaler with Audio
> Seamless Switching between Computer and Video Sources
> User-Friendly - Direct Access to Main Functionalities

Consoles for the Switchers

RKD500-T and **RKD500** - p. 70 New!

RKD100 - p. 70 New!

Axion - p. 66

The Effects of Analog Way Seamless Switchers

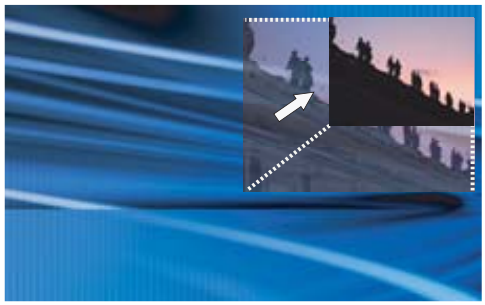
PIP

PIP can be sized, stretched, cropped and positioned anywhere on the image.

The Switcher creates High quality picture insertion from any input. The PIP can be sized and moved anywhere over the background image. Background image can be switched between one Computer source and Frame.

The PIP source can be fast & smoothly switched through a fade to black or customized color. The PIP opening offers a choice between Cut and Fade.

Effect available on*: *Octo Vue FX, Octo Vue Fade, Octo Vue, Quattro Vue



Logos and Frame Stores

Logo is captured, stored in the Octo or Quatttro and positioned anywhere on the image

The Switcher can store in its non volatile memory 8 Still and 1 Animated Logos and 4 Full Frame Images in true Hi-Res. 16 million colors. Recording is done either by direct acquisition from Input source or from Computer download of image files.

Up to 2 logos can be assigned to each input to be displayed at any position on the output screen. Logos can have any shape due to the keying capability, and transparency is user adjustable. Full Frames can be used as PIP Background and welcome or transition images.

Effect available on*: *Octo Vue FX, Octo FX2, Quattro FX

Title Effect

Subtitles can be positioned anywhere on the image with adjustable shadow for better readability

The Switcher can mix a Computer source with a Title with any Video or Computer source. The title remains on the screen during the transition. The Switcher also features a shadow title effect with settable vertical size and position that enhances the readability of the titling text over very bright images.

Effect available on*: *Octo Vue FX, Octo Vue Fade, Octo FX2, Octo Fade 2, Quattro FX*, *Easy Fade

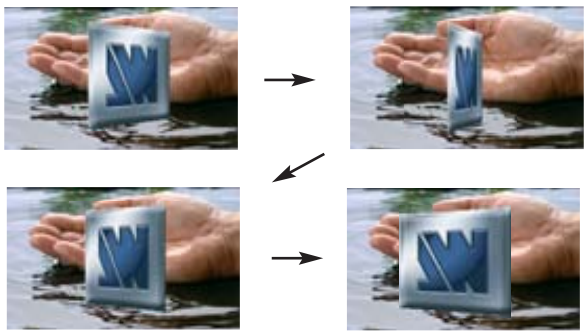
Animated Logo

Gif animated logo is stored in the Octo or Quattro and provides dynamic effect

The Switcher can store in its non volatile memory 1 animated logo in true Hi-Res. 16 million colors. Recording is done either by direct acquisition from Input source or from Computer download of image files.

Logo can be displayed anywhere on the output screen and can have any shape due to the keying capability. Transparency is user adjustable.

Effect available on**: **Octo Vue FX, Octo FX2, Quattro FX

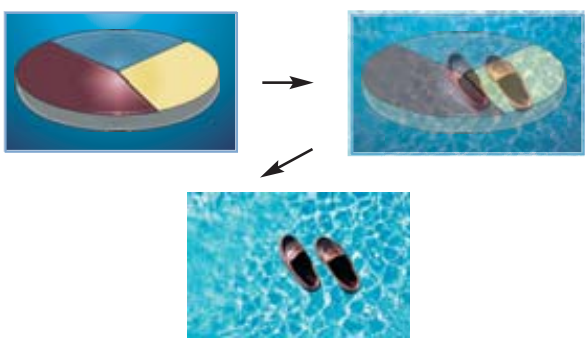


Fade

True adjustable fade from a PC source to a Video source or PC source

The Switcher features cross-fade effects between Computer and Video (TV/HDTV) or Computer sources, with adjustment of the cross-fading duration.

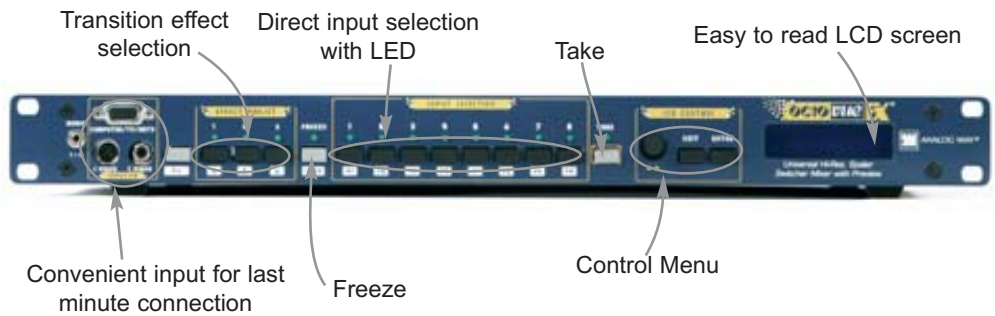
Effect available on**: **Octo Vue FX, Octo Vue Fade, Octo FX2, Octo Fade2, Quattro FX, Easy Fade (PC to video only)

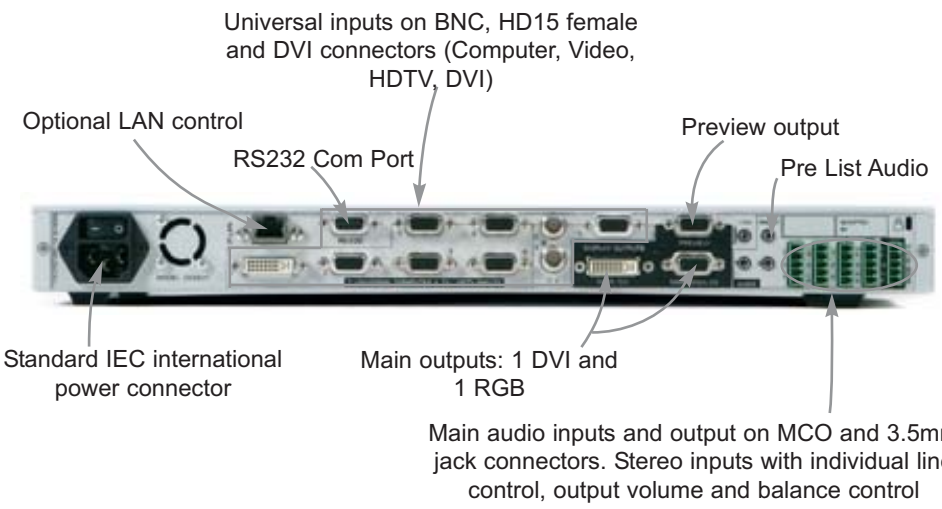


Octo Vue FX™

Octo Vue FX™ — New! — Model. OVX831

- HD Seamless Switcher for Houses of Worship, Conference Rooms and Large Screen Projection
- Features Scaled Preview and Hi-Res Picture in Picture
- Analog & Digital In/Out up to 1080p
- Animated or Still Logo, Fade, Titling, Cut and Frame Store





Inputs
- 8 Universal Inputs with 1 DVI,
- Computer and DVI up to UXGA / 1080p
- Video: NTSC/ PAL/SECAM, S.Video, YUV, RGB, HDTV
- 8 + 1 Audio Stereo with level adjustment for each input

Outputs
- Main: 1 DVI + 2 RGB up to UXGA / 1080p
- Preview: XGA RGBHV
- Audio Stereo Main and Pre- List with level adjustment

Effects
- PIP, Fade, Titling, Seamless Cut, Clean Cut
- Ultra fast and smooth switching
- Logo inserter: 1 animated and up to 8 still logos
- 4 full frame stores in non volatile memory

Technical Specifications

8 Universal Inputs
- **Composite Video** NTSC = 15.735 kHz/60 Hz PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz/60 Hz PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L 15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HD YUV 2/3 Level Sync.) 1080i/60-50Hz, 1080p, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)
- **DVI**: Digital computer up to 1600x1200RB/60Hz and 1920x1080/60Hz (Fpx: 165MHz max)

Audio Inputs
8 + 1 Stereo Inputs
- 2 balanced audio inputs
- 7 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Main Display Output
- 2 x Buffered outputs (1 on HD15 F connector and 1 on DVI-I connector) RGB HV, RGB/S or RGsB selectable (H&V separated, Sync. Composite or SOG), RGB=0.7Vp/p (75 Ohms)
- 1 x DVI-D on DVI-I connector
- Resolution: **4/3 & 5/4** = SVGA, XGA, SXGA+, UXGA, **16/9 & 16/10** = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz and Follow

(*) : depending on resolution

Preview Display Output
1 x RGB HV separated Sync - RGB = 0.7V p/p (75 Ohms load), resolution: XGA, Rate: Internal 60Hz

Logos and Frame Stores
8 logos & 6 frame stores,16 million colors, non-volatile memory, Flash capture of Video or Computer sources, 256 step keying threshold control, adjustable H&V logo position, 2 logos allocated per input

Main Audio Output
- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

PreList Audio Output
- Stereo output unbalanced
- Vo = + 18 dBu max
- Zo = 300 Ohms
- G = 0dB nominal, with master volume

User Controls and Connectors
FRONT PANEL:
User controls:
- Selection of inputs 1 to 8 and Frame memory,
- Programmable effect keys
- Freeze/Logo On Off, Take
- LCD screen & control buttons for menu: Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

Input Connectors:
- Input #8: Video - RCA, Mini DIN 4 and HD15F Audio - Jack Stereo 3.5

REAR PANEL:
Input Connectors:
- Input #1: DVI-I
- Inputs #2 to #6: HD 15F
- Input #7: HD 15F + 2 BNC
- Audio inputs 3 to 7 and auxiliary: on 5-pin screw terminal
- Audio inputs 1 and 2: on 3.5 jack stereo

Output Connectors:
- Main Video: DVI-I + HD 15F
- Preview Video: HD 15F
- Main Audio: 5-pin screw terminal
- Prelist Audio: Jack Stereo 3.5

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5 : +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply
Internal, universal, automatic, 100-250, VAC;50/60 Hz (50 W) (UL, CSA, GS, CE), ON/OFF AC Main Switch

Supplied with
- 1 x Power cable
- 1 x Set of 5 audio 5-pin screw terminals
- 1 x DVI-VGA adapter
- 1 x HD15F-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions: 19", 1U Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

WARRANTY
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Octo Vue FX™ by Analog Way is a High Resolution Digital and Analog Computer & Video Up/Down Scaler Switcher. In addition, OVX 831 offers a true scaled preview and many effects including High Resolution PIP in Computer & Video formats, Title, Fade and logos and frames (see all detais on these effects page 38).

Preview: OVX 831 is fitted with a true scaled Preview out offering the facility to visualize any source before displaying it on the Main output. Preview out ensures easy and safe presentations since any Video or Computer source can be checked on a simple LCD screen before being shown to the audience.

It is fitted with 8 Universal A/V inputs including one DVI, and 4 outputs: 2 Analog and 1 DVI for the Main; 1 Analog for the Preview. It performs an ultra fast and smooth transition between any Video or Computer sources. It also allows a true seamless switching between one computer Input (direct) and any other Video or Computer Input.

OVX 831 is a High Performance, State of the Art, Up/Down Video and Computer Scaler. Ready to fit the native resolution of the latest HD display devices, it provides a superior image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, OVX 831 offers Auto Setup function, Auto Clock and Phase for Computers. Each input image control - brightness, contrast, color, hue, processing, aspect ratio, zoom, etc … - can be individually set and stored in nonvolatile memories.

Each of the 8 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image.

One additional stereo audio input is provided to be mixed with the Video audio input lines. OVX is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the Analog Way web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is especially designed for high resolution A/V presentation displays, Houses of Worship, conference and boardrooms, and events.

To Control Octo Vue FX

- **RKD500-T:** Remote control keypad with T-Bar. See page 70
- **RKD500:** Remote control keypad. See page 70
- **Axion:** High end event controller. See page 66

Axion

RKD500-T

Cables for Octo Vue FX

> **S.Video Cables from 1.8m/6ft to 20m/66ft:** Ref. 10009 - 10093 - 10094 - 10095
> **S. Video to BNC Cables of 1.8m/6ft and 5m/16ft:** Ref. 10102 - 10103
> **RCA Cable of 1.2m/4ft:** Ref. 10010
> **RCA / BNC Adapter Cables:** Ref. 10011
> **Jack Stereo Cable of 1.2m/4ft:** Ref. 10012
> **Audio Stereo Cable of 1.2m/4ft:** Ref. 10013
> **VGA Cables from 0.4m/1ft to 1.8m/6ft:** Ref. 10014 - 10015 - 10077
> **VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M et F/M):** Ref. 10023 - 10024 - 10025 - 10026
> **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **DVI Cables from 1.8m/3ft to 70m/230 ft:** Details of references page 122

References

> **OVX831:** OCTO-VUE FX™ with RS232 com port

- **RKD500-T*:** Remote control keypad with T-Bar
- **RKD500*:** Remote control keypad

* sold separately

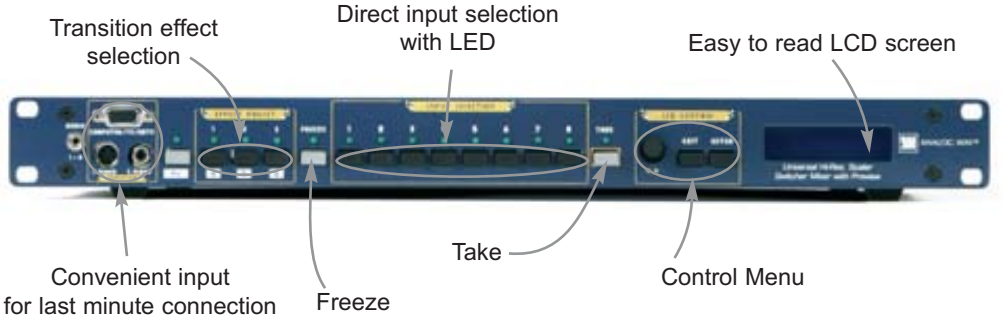
Option

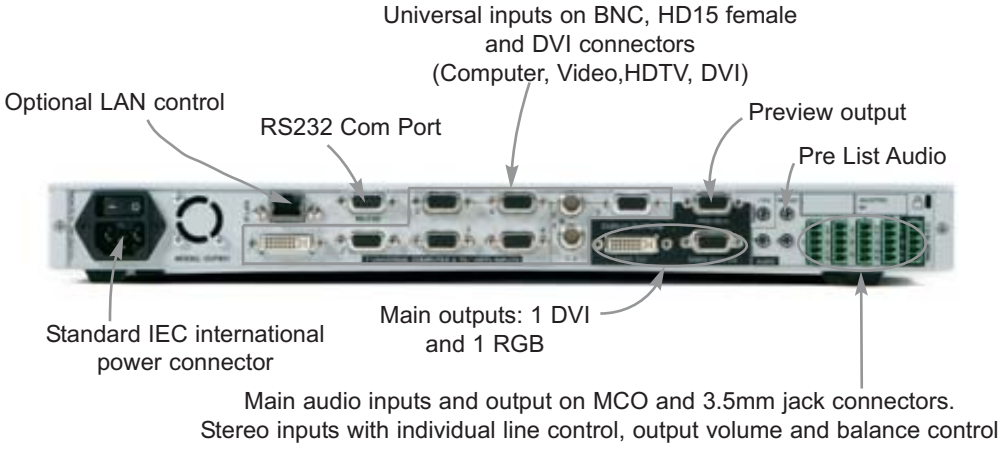
- **OPT-LAN:** Optional TCP/IP Control Interface

Octo Vue Fade™

Octo Vue Fade™ — New! — **Model.** OVF831

- HD Seamless Switcher for Conference Rooms, Houses of Worship and Large Screen Projections
- Features Scaled Preview and Hi-Res. Picture in Picture
- Analog and Digital Inputs/Outputs up to 1080p
- Transition effects: Cut, Fade, Titling





Inputs
- 8 universal inputs with 1 DVI
- Computer and DVI up to UXGA / 1080p
- Video: NTSC/PAL/SECAM, S. Video, YUV, RGB, HDTV
- 8 + 1 Stereo Audio with level adjustment for each input

Outputs
- Main: 1 DVI + 2 RGB up to UXGA / 1080p
- Preview: XGA RGBHV
- Audio Stereo Main and Pre-List with level adjustment

Effects
- PIP, Fade, Titling, Seamless and Clean Cut
- Ultra fast and smooth switching

Technical Specifications

8 Universal Inputs
- **Composite Video** NTSC = 15.735 kHz/60 Hz PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L 15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HDYUV 2/3 Level Sync.) 1080i/60-50Hz, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation. Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)
- **DVI**: Digital computer up to 1600x1200/60Hz and 1920x1080@60Hz (Fpx: 165MHz max)

Audio Inputs

8 + 1 Stereo Inputs
- 2 balanced audio inputs
- 7 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Main Display Output
- 2 x Buffered outputs (1 on HD15 F connector and 1 on DVI-I connector) RGB HV, RGB/S or RGsB selectable (H&V separated, Sync. Composite or SOG), RGB=0.7Vp/p (75 Ohms)
- 1 x DVI-D on DVI-I connector
- Resolution: **4/3 & 5/4** = SVGA, XGA, SXGA+, UXGA, **16/9 & 16/10** = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz and Follow

(*) : depending on resolution

Preview Display Output

1 x RGB HV separated Sync - RGB = 0.7V p/p (75 Ohms), resolution: XGA, Rate: 60Hz

Main Audio Output
- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

Prelist Audio Output
- Stereo output unbalanced
- Vo = + 18 dBu max
- Zo = 300 Ohms
- G = 0dB nominal, with master volume

User Controls and Connectors

FRONT PANEL

User controls:
- Selection of inputs 1 to 8
- Programmable effect keys
- Freeze, Take, Black
- LCD screen & control buttons for menu: Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

Input Connectors:
- Input #8: Video - RCA, Mini DIN 4 and HD15F, Audio - Jack Stereo 3.5

REAR PANEL

Input Connectors:
- Input #1: DVI-I
- Inputs #2 to #6: HD 15F
- Input #7: HD 15F + 2 BNC
- Audio inputs 3 to 7 and auxiliary on 5-pin screw terminal
- Audio inputs 1 and 2: on 3.5 jack stereo

Output Connectors:
- Main Video: DVI-I + HD 15F
- Preview Video: HD 15F
- Main Audio: 5-pin screw terminal
- Prelist Audio: Jack Stereo 3.5

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5 : +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply

Internal, universal, automatic, 100-250, VAC;50/60 Hz (50 W) (UL, CSA, GS, CE), ON/OFF AC Main Switch

Supplied with
- 1 x Power cable
- 1 x Set of 5 audio 5-pin screw terminals
- 1 x DVI-VGA adapter
- 1 x HD15F-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions: 19", 1U Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

WARRANTY

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Octo Vue Fade™ by Analog Way is a High Resolution Digital and Analog, Computer & Video Scaler Seamless Switcher. In addition, OVF 831 offers a true scaled preview and many effects including High Resolution PIP for Computer & Video formats, as well as fading and titling (see all detais on these effects page 38)

Preview: OVF 831 is fitted with a true scaled Preview out offering the facility to visualize any source before displaying it on the Main output. Preview out ensures easy and safe presentations since any Video or Computer source can be checked on a simple LCD screen before being shown to the audience.

OVF 831 is fitted with 8 Universal A/V inputs including one DVI, and 4 outputs: 2 Analog and 1 DVI for the Main, and 1 Analog for the Preview. It performs an ultra fast and smooth transition between any Video or Computer source. It also allows for true seamless switching between one computer Input (direct) and any other Video or Computer Input.

OVF 831 is a High Performance, State of the Art, Up/Down Video and Computer Scaler. Ready to fit the native resolution of the latest HD display devices, it provides a high quality image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, **OVF 831** offers an Auto Setup function and a powerful Auto Clock & Phase for Computers. Each input image control - brightness, contrast, color, hue, processing, aspect ratio, zoom, etc … - can be individually set and stored in nonvolatile memories.

Each of the 8 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image.

One additional stereo audio input is provided to be mixed with the Video audio input lines. **OVF 831** is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the Analog Way web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is designed for high resolution A/V presentation displays, Houses of Worship, conference and boardrooms, and events.

To Control Octo Vue Fade

- **RKD500-T:** Remote control keypad with T-Bar. See page 70
- **RKD500:** Remote control keypad. See page 70
- **Axion:** High end event controller. See page 66

Axion

RKD500-T

Cables for Octo Vue Fade

> S.Video Cables from 1.8m/6ft to 20m/66ft: Ref. 10009 - 10093 - 10094 - 10095

> S. Video to BNC Cables of 1.8m/6ft and 5m/16ft: Ref. 10102 - 10103

> RCA Cable of 1.2m/4ft: Ref. 10010

> RCA / BNC Adapter Cables: Ref. 10011

> Jack Stereo Cable of 1.2m/4ft: Ref. 10012

> Audio Stereo Cable of 1.2m/4ft: Ref. 10013

> VGA Cables from 0.4m/1ft to 1.8m/6ft: Ref. 10014 - 10015 - 10077

> VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M et F/M): Ref. 10023 - 10024 - 10025 - 10026

> Remote Cables from 0.5m/1ft to 30m/100ft: Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

> DVI Cables from 1,8m/3ft to 70m/230 ft: Details of references page 122

References

> OVF831: OCTO VUE Fade with RS232 com port

- RKD500-T*: Remote control keypad with T-Bar
- RKD500*: Remote control keypad

* : sold separately

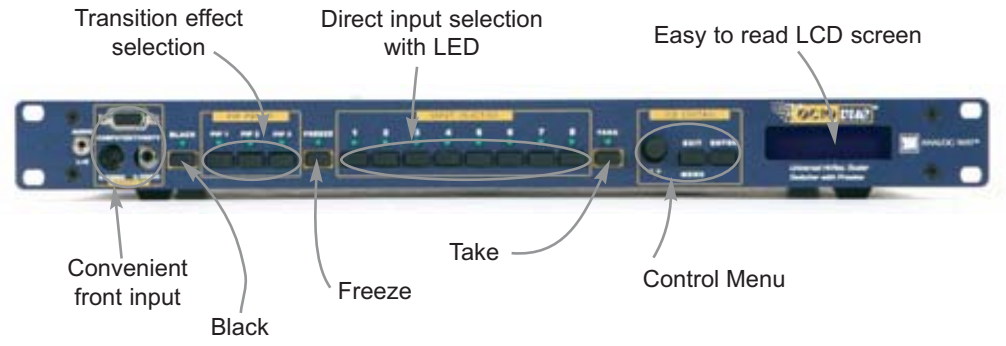
Options

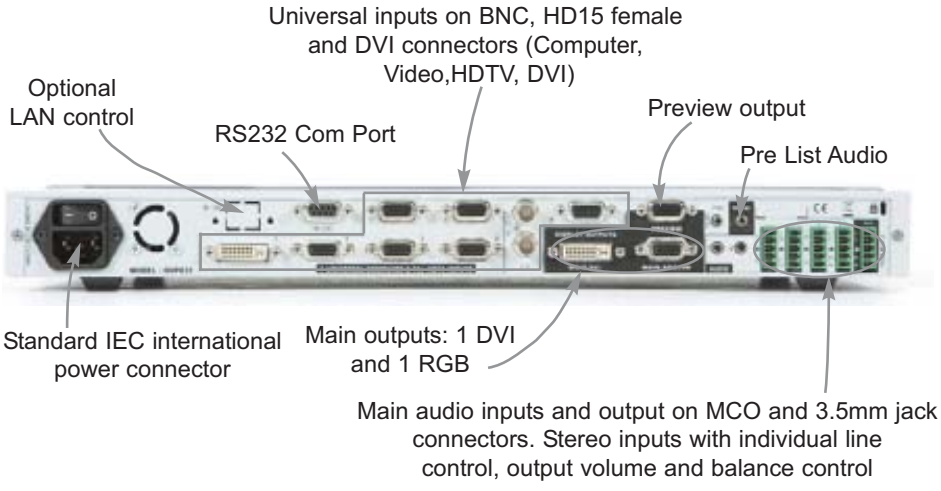
- OPT-LAN : Optional TCP/IP control interface

Octo Vue™

Octo Vue™ New! **Model.** OVP831

- HD Seamless Switcher for Conference Rooms, Houses of Worship and Large Screen Projections
- Features Scaled Preview and Hi-Res. Picture in Picture
- Analog and Digital Inputs/Outputs up to 1080p
- 8 Universal Inputs with DVI in & out and Audio





Inputs
- 8 universal inputs with 1 DVI
- Computer and DVI up to UXGA / 1080p
- Video : NTSC/PAL/SECAM, S. Video, YUV, RGB, HDTV
- 8 + 1 Stereo Audio with level adjustment for each input

Outputs
- Main : 1 DVI + 2 RGB up to UXGA / 1080p
- Preview : XGA RGBHV
- Audio Stereo Main and Pre-List with level adjustment

Effects
- PIP, Seamless and Clean Cut
- Ultra fast and smooth or colored switching

Technical Specifications

8 Universal Inputs
- **Composite Video** NTSC = 15.735 kHz/60 Hz PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L 15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HDYUV 2/3 Level Sync.) 1080i/60-50Hz, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation. Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)
- **DVI**: Digital computer up to 1600x1200/60Hz and 1920x1080/60Hz (Fpx: 165MHz max)

Audio Inputs

8 + 1 Stereo Inputs
- 2 balanced audio inputs
- 7 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Main Display Output
- 2 x Buffered outputs (1 on HD15 F connector and 1 on DVI-I connector) RGB HV, RGB/S or RGsB selectable (H&V separated, Sync. Composite or SOG), RGB= 0.7Vp/p (75 Ohms)
- 1 x DVI-D on DVI-I connector
- Resolution: **4/3 & 5/4** = SVGA, XGA, SXGA+, UXGA, **16/9 & 16/10** = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz (Follow)

(*): depending on resolution

Preview Display Output

1 x RGB HV separated Sync - RGB = 0.7V p/p (75 Ohms), resolution: XGA, Rate: 60Hz

Main Audio Output
- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

Prelist Audio Output
- Stereo output unbalanced
- Vo = + 18 dBu max
- Zo = 300 Ohms
- G = 0dB nominal, with master volume

User Controls and Connectors

FRONT PANEL

User controls:
- Selection of inputs 1 to 8
- Programmable effect keys
- Freeze, Take, Black
- LCD screen & control buttons for menu: Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

Input Connectors:
- Input #8: Video - RCA, Mini DIN 4 and HD15F, Audio - Jack Stereo 3.5

REAR PANEL

Input Connectors:
- Input #1: DVI-I
- Inputs #2 to #6: HD 15F
- Input #7: HD 15F + 2 BNC
- Audio inputs 3 to 7 and auxiliary: on 5-pin screw terminal
- Audio inputs 1 and 2: on 3.5 jack stereo

Output Connectors:
- Main Video: DVI-I + HD 15F
- Preview Video: HD 15F
- Main Audio: 5-pin screw terminal
- Prelist Audio: Jack Stereo 3.5

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5 : +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply

Internal, universal, automatic, 100-250, VAC;50/60 Hz (50 W) (UL, CSA, GS, CE),ON/OFF AC Main Switch

Supplied with
- 1 x Power cable
- 1 x Set of 5 audio 5-pin screw terminals
- 1 x DVI-VGA adapter
- 1 x HD15M-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions: 19", 1U Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

Warranty

3 year warranty on parts and labor back to factory

Octo Vue™ by Analog Way is a High Resolution Digital and Analog, Computer & Video Scaler Seamless Switcher. In addition, OVP831 offers a true scaled preview and many effects including High Resolution PIP in Computer & Video formats (see details on this effect page 38).

Preview: OVP 831 is fitted with a true scaled Preview out offering the facility to visualize any source before displaying it on the Main output. Preview out ensures easy and safe presentations since any Video or Computer source can be checked on a simple LCD screen before being shown to the audience.

OVP 831 is fitted with 8 Universal A/V inputs including one DVI, and 4 outputs: 2 Analog and 1 DVI for the Main*. It performs an ultra fast and smooth transition between any Video or Computer sources. It also allows a true seamless switching between one computer Input (direct) and any other Video or Computer Input.

OVP 831 is a High Performance State of the Art Up/Down Video and Computer Scaler. Ready to fit the native resolution of the latest HD display devices, it provides a high quality image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, **OVP 831** offers an Auto Setup function and a powerful Auto Clock & Phase for Computers. Each input image control - brightness, contrast, color, hue, processing,aspect ratio, zoom, etc … - can be individually set and stored in non volatile memories.

Each of the 8 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image. One additional stereo audio input is provided to be mixed with the Video audio input lines.

OVP 831 is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the Analog Way web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is designed for high resolution A/V presentation displays, conference and boardrooms, and events.

To Control Octo Vue

- **RKD500-T:** Remote control keypad with T-Bar. See page 70
- **RKD500:** Remote control keypad. See page 70
- **Axion:** High end event controller. See page 66

Axion

RKD500-T

Cables for Octo Vue

> S.Video Cables from 1.8m/6ft to 20m/66ft: Ref. 10009 - 10093 - 10094 - 10095

> S. Video to BNC Cables of 1.8m/6ft and 5m/16ft: Ref. 10102 - 10103

> RCA Cable of 1.2m/4ft: Ref. 10010

> RCA / BNC Adapter Cables: Ref. 10011

> Jack Stereo Cable of 1.2m/4ft: Ref. 10012

> Audio Stereo Cable of 1.2m/4ft: Ref. 10013

> VGA Cables from 0.4m/1ft to 1.8m/6ft: Ref. 10014 - 10015 - 10077

> VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M et F/M): Refs 10023 - 10024 - 10025 - 10026

> Remote Cables from 0.5m/1ft to 30m/100ft: Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

> DVI Cables from 1,8m/3ft to 70m/230 ft: Details of references page 122

Specifications subject to change without prior notice

References

> OVP831: OCTO VUE with RS232 com port

- RKD500-T *: Remote control with T-Bar
- RKD500*: Remote control

*** : sold separately**

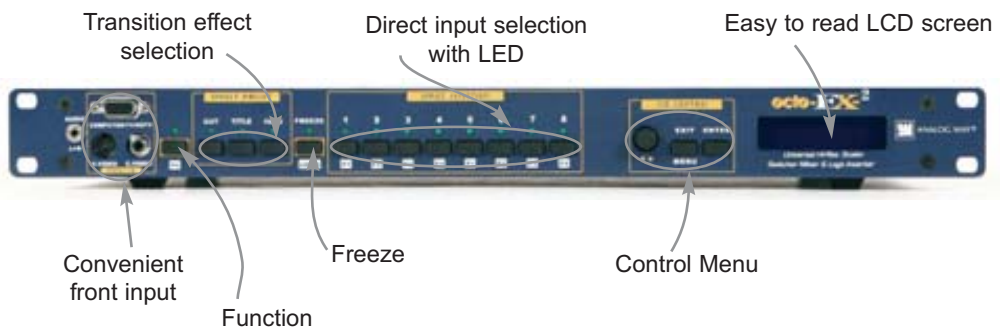
Option

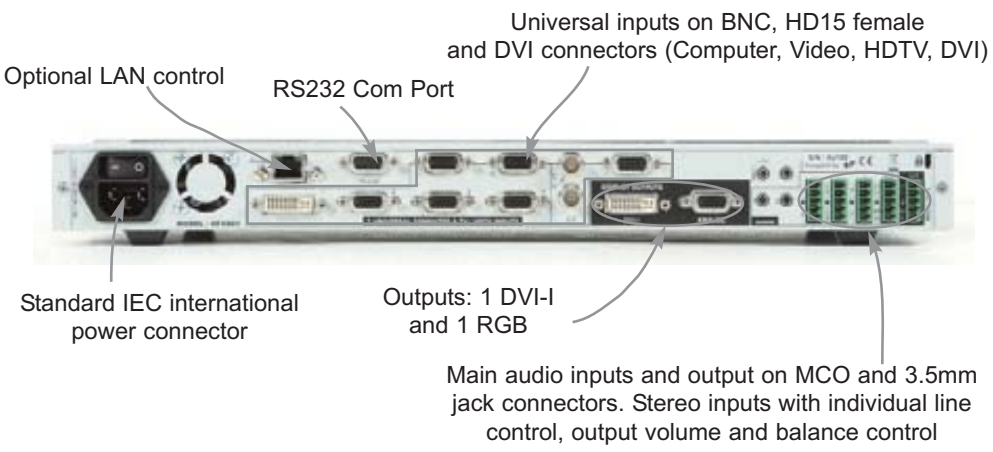
- OPT-LAN: Optional TCP/IP control interface

Octo FX2™

Octo FX2™ New! **Model.** OFX803

- HD Seamless Switcher for Conference Rooms, Houses of Worship and Large Screen Projections
- 8 Universal Inputs with Audio:
  - PAL / NTSC / Secam, S.Video, RGB, YUV, HDTV
  - Computer up to UXGA/1080p
- Analog and Digital inputs/outputs up to 1080p
- Animated or Still Logo, Fade, Titling, Cut and Frame Stores





Inputs
- 8 universal inputs with 1 DVI
- Computer and DVI up to UXGA / 1080p
- Video : NTSC/PAL/SECAM, S. Video, YUV, RGB, HDTV
- 8 + 1 Stereo Audio with level adjustment for each input

Outputs
- 1 DVI + 2 RGB up to UXGA / 1080p
- Audio Stereo with level adjustment

Effects
- Fade, Titling, Seamless Cut
- Ultra fast and smooth or colored switching
- Logo insertion : 1 still and 8 animated logos
- 4 frame stores in non volatile memory

Technical Specifications

8 Universal Inputs
- **Composite Video** NTSC = 15.735 kHz/60 Hz, PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz, PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L, 15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HDYUV 2/3 Level Sync.) 1080i/60-50Hz, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation. Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)
- **DVI**: Digital computer up to 1600x1200RB/60Hz and 1920x1080/60Hz (Fpx: 165MHz max)

Audio Inputs

8 + 1 Stereo Inputs
- 2 balanced audio inputs
- 7 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Display Output
- 2 x Buffered outputs (1 on HD15 F connector and 1 on DVI-I connector) RGB HV, RGB/S or RGsB selectable (H&V separated, Sync. Composite or SOG), RGB= 0.7Vp/p (75 Ohms)
- 1 x DVI-D on DVI-I connector
- Resolution: **4/3 & 5/4** = SVGA, XGA, SXGA+, UXGA, **16/9 & 16/10** = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz (Follow)

(*) : depending on resolution

Audio Output
- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

User Controls and Connectors

FRONT PANEL

User controls:
- Selection of inputs 1 to 8 and frame stores
- Programmable effect keys
- Freeze, Logo
- LCD screen & control buttons for menu: Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

Input Connectors:
- Input #8: Video - RCA, Mini DIN 4 and HD15F Audio - Jack Stereo 3.5

REAR PANEL

Input Connectors:
- Input #1: DVI-I
- Inputs #2 to #6: HD 15F
- Input #7: HD 15F + 2 BNC
- Audio inputs 3 to 7 and auxiliary: on 5-pin screw terminal
- Audio inputs 1 and 2: on 3.5 jack stereo

Output Connectors:
- Video: DVI-I + HD 15F
- Audio: 5-pin screw terminal

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5 : +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply

Internal, universal, automatic, 100-250, VAC;50/60 Hz (50 W) (UL, CSA, GS, CE), ON/OFF AC Main Switch

Supplied with
- 1 x Power cable
- 1 x Set of 5 audio 5-pin screw terminals
- 1 x DVI-VGA adapter
- 1 x HD15M-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions - 19", 1U compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Octo FX²™

Octo FX²™ by **Analog Way** is a **High Resolution Digital and Analog, Computer & Video Scaler Seamless Switcher**. **OFX803** offers many effects: **Fade**, **titling**, **logo insertion** (1 animated and 8 still) and **frame store** (see details of the effects page 38).

OFX 803 is fitted with 8 Universal A/V inputs including one DVI, and 3 outputs: 2 Analog and 1 DVI. It performs an ultra fast and smooth transition between any Video or Computer sources. It also allows a true seamless cut between one computer Input (direct) and any other Video or Computer Input.

OFX 803 is a High Performance, State of the Art, Up/Down Video and Computer Scaler. Ready to fit the native resolution of the latest HD display devices, it provides a high quality image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, **OFX 803** offers an Auto Setup function and a powerful Auto Clock & Phase for Computers. Each input image control - brightness, contrast, color, hue, processing,aspect ratio, zoom, etc … - can be individually set and stored in non volatile memories.

Each of the 8 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image.

One additional audio stereo input is provided to be mixed with the Video input audio line. **OFX 803** is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the Analog Way web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is designed for high resolution A/V presentation displays, Houses of Worship, conference and boardrooms, and events.

To Control Octo FX²

- **RKD500-T:** Remote control keypad with T-Bar. See page 70
- **RKD500:** Remote control keypad. See page 70
- **RKD100:** Remote Console. See page 70
- **Axion:** High end event controller. See page 66

Axion

RKD500-T

RKD100

Cables for Octo FX²

- **S.Video Cables from 1.8m/6ft to 20m/66ft:** Ref. 10009 - 10093 - 10094 - 10095
- **S. Video to BNC Cables of 1.8m/6ft and 5m/16ft:** Ref. 10102 - 10103
- **RCA Cable of 1.2m/4ft:** Ref. 10010
- **RCA / BNC Adapter Cables:** Ref. 10011
- **Jack Stereo Cable of 1.2m/4ft:** Ref. 10012
- **Audio Stereo Cable of 1.2m/4ft:** Ref. 10013
- **VGA Cables from 0.4m/1ft to 1.8m/6ft:** Ref. 10014 - 10015 - 10077
- **VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
- **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

References

> OFX803: Octo FX² with RS232 com port

- **RKD500-T***: Remote control with T-Bar
- **RKD500***: Keypad for remote control
- **RKD100***: Keypad for remote control

* : sold separately

Option

- **OPT-LAN:** Optional TCP/IP control interface

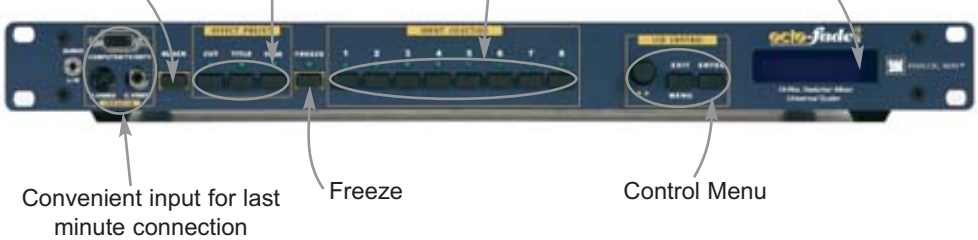
Octo Fade2™

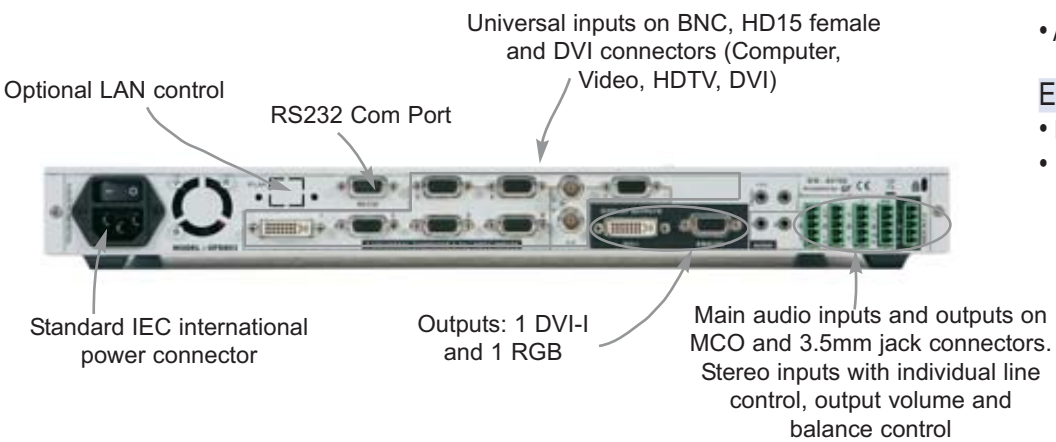
Octo Fade2™

New!

Model. OFD803

- HD Seamless Switcher for Conference Rooms, Houses of Worship and Large Screen Projections
- 8 Universal Inputs with Audio:
  - NTSC / PAL / Secam, S.Video, RGB, YUV, HDTV
  - Computer up to UXGA/1080p
- Analog and Digital Inputs/Outputs up to 1080p
- Transition Effects: Cut, Fade and Titling





Inputs

- 8 universal inputs with 1 DVI
- Computer and DVI up to UXGA / 1080p
- Video: NTSC/PAL/SECAM, S. Video, YUV, RGB, HDTV
- 8 + 1 Stereo Audio with level adjustment for each input

Outputs

- 1 DVI + 2 RGB up to UXGA / 1080p
- Audio Stereo with level adjustment

Effects

- Fade, Titling, Seamless Cut
- Ultra fast and smooth or colored switching

Technical Specifications

8 Universal Inputs

- **Composite Video** NTSC = 15.735 kHz/60 Hz
  PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz
  PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L
  15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HDYUV 2/3 Level Sync.) 1080i/60-50Hz, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation. Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)
- **DVI**: Digital computer up to 1600x1200 RB/60Hz and 1920x1080/60Hz (Fpx: 165MHz max)

Audio Inputs

8 + 1 Stereo Inputs
- 2 balanced audio inputs
- 7 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Display Output

- 2 x Buffered outputs (1 on HD15 F connector and 1 on DVI-I connector) RGB HV, RGB/S or RGsB selectable (H&V separated, Sync. Composite or SOG), RGB= 0.7Vp/p (75 Ohms)
- 1 x DVI-D on DVI-I connector
- Resolution: 4/3 & 5/4 = SVGA, XGA, SXGA+, UXGA, 16/9 & 16/10 = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz and Follow

(*) : depending on resolution

Audio Output

- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

User Controls and Connectors

FRONT PANEL

User controls:
- Selection of inputs 1 to 8
- Programmable effect keys
- Freeze
- LCD screen & control buttons for menu: Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

Input Connectors:
- Input #8: Video - RCA, Mini DIN 4 and HD 15F Audio - Jack Stereo 3.5

REAR PANEL

Input Connectors:
- Input #1: DVI-I
- Inputs #2 to #6: HD 15F
- Input #7: HD 15F + 2 BNC
- Audio inputs 3 to 7 and auxiliary: on 5-pin screw terminal
- Audio inputs 1 and 2: on 3.5 jack stereo

Output Connectors:
- Video: DVI-I + HD 15F
- Audio: 5-pin screw terminal

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5 : +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply

Internal, universal, automatic, 100-250, VAC;50/60 Hz (50 W) (UL, CSA, GS, CE), ON/OFF AC Main Switch

Supplied with

- 1 x Power cable
- 1 x Set of 5 audio 5-pin screw terminals
- 1 x DVI-VGA adapter
- 1 x HD15M-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions: 19", 1U Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Octo Fade^2 TM

by **Analog Way** is a **High Resolution Digital and Analog, Computer & Video Scaler Seamless Switcher**. **OFD803** features **fade** and **titling** effects (See details of these effects page 38).

OFD 803 is fitted with 8 Universal A/V inputs including one DVI, and 3 outputs: 2 Analog and 1 DVI. It performs an ultra fast and smooth transition between any Video or Computer source. It also allows a true seamless cut between one computer Input (direct) and any other Video or Computer Input.

OFD 803 is a High Performance, State of the Art, Up/Down Video and Computer Scaler. Ready to fit the native resolution of the latest HD display devices, it provides a high quality image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, **OFD 803** offers an Auto Setup function and a powerful Auto Clock & Phase for Computers. Each input image control - brightness, contrast, color, hue, processing, aspect ratio, zoom, etc ... - can be individually set and stored in non volatile memories. Each of the 8 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image.

One additional stereo audio input is provided to be mixed with the Video audio input lines. **OFD 803** is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the Analog Way web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is designed for high resolution A/V presentation displays, Houses of Worship, conference and boardrooms, and events.

To Control Octo Fade^2

- **RKD500-T:** Remote console with T-Bar. See page 70
- **RKD500:** Remote console. See page 70
- **RKD100:** Remote console. See page 70
- **Axion:** High End Remote controller. See page 66

Axion

RKD500-T

RKD100

Cables for Octo Fade^2

- **S.Video Cables from 1.8m/6ft to 20m/66ft:** Ref. 10009 - 10093 - 10094 - 10095
- **S. Video to BNC Cables of 1.8m/6ft and 5m/16ft:** Ref. 10102 - 10103
- **RCA Cable of 1.2m/4ft:** Ref. 10010
- **RCA / BNC Adapter Cables:** Ref. 10011
- **Jack Stereo Cable of 1.2m/4ft:** Ref. 10012
- **Audio Stereo Cable of 1.2m/4ft:** Ref. 10013
- **VGA Cables from 0.4m/1ft to 1.8m/6ft:** Ref. 10014 - 10015 - 10077
- **VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
- **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

References

> OFD803: Octo Fade^2 with RS232 com port

- **RKD500-T*:** Remote control with T-Bar
- **RKD500*:** Keypad for remote control
- **RKD100*:** Keypad for remote control

* : sold separately

Option

- **OPT-LAN:** Optional TCP/IP control interface

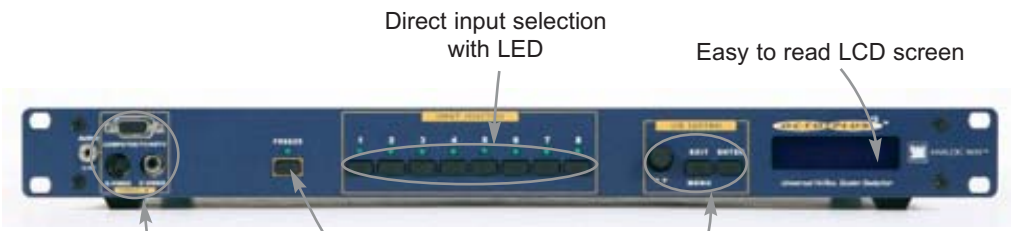
Octo Plus^{2}™

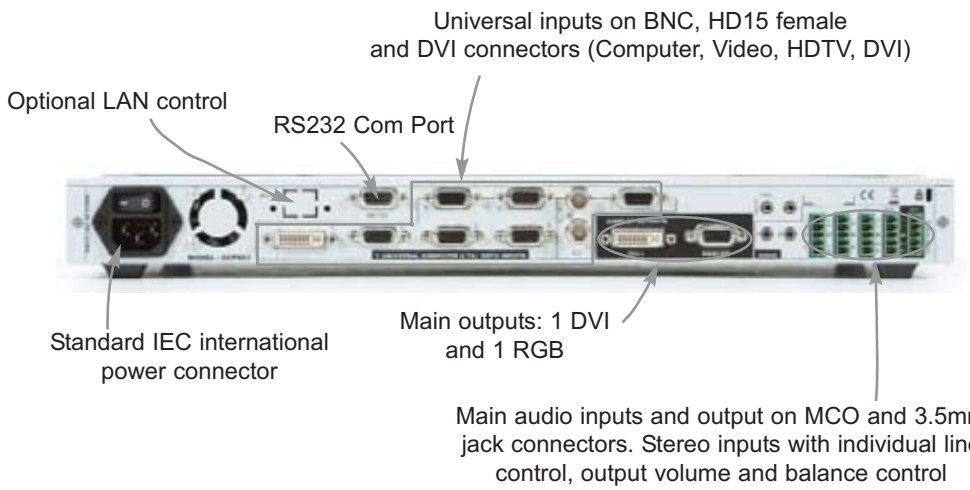
Octo Plus^{2}™

New!

Model. OCP803

- HD Seamless Switcher for Conference Rooms, Houses of Worship and Large Screen Projections
- 8 Universal Inputs with Audio:
  - NTSC / PAL / Secam, S. Video, YUV, RGB, HDTV
  - Computer up to UXGA/1080p
- Analog and Digital DVI Inputs/Outputs up to 1080p





Inputs

- 8 Universal Inputs with 1 DVI
- Computer and DVI up to UXGA / 1080p
- Video: NTSC/PAL/SECAM, S. Video, YUV, RGB, HDTV
- 8 + 1 Stereo Audio with level adjustment for each input

Outputs

- 1 DVI + 2 RGB up to UXGA / 1080p
- Audio Stereo with level adjustment

Effects

- Seamless Cut
- Ultra fast and smooth or colored switching

Technical Specifications

8 Universal Inputs

- **Composite Video** NTSC = 15.735 kHz/60 Hz
  PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz
  PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L
  15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HDYUV 2/3 Level Sync.) 1080i/60-50Hz, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation. Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)
- **DVI**: Digital computer up to 1600x1200 RB/60Hz and 1920x1080/60Hz (Fpx: 165MHz max)

Audio Inputs

8 + 1 Stereo Inputs
- 2 balanced audio inputs
- 7 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Display Output

- 2 x Buffered outputs (1 on HD15 F connector and 1 on DVI-I connector) RGB HV, RGB/S or RGsB selectable (H&V separated, Sync. Composite or SOG), RGB= 0.7Vp/p (75 Ohms)
- 1 x DVI-D on DVI-I connector
- Resolution: **4/3 & 5/4** = SVGA, XGA, SXGA+, UXGA, **16/9 & 16/10** = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz (Follow)

(*) : depending on resolution

Audio Output

- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

User Controls and Connectors

FRONT PANEL

User controls:
- Selection of inputs 1 to 8
- Freeze
- LCD screen & control buttons for menu: Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

Input Connectors:
- Input #8: Video - RCA, Mini DIN 4 and HD15F Audio - Jack Stereo 3.5

REAR PANEL

Input Connectors:
- Input #1: DVI-I
- Inputs #2 to #6: HD 15F
- Input #7: HD 15F + 2 BNC
- Audio inputs 3 to 7 and auxiliary: on 5-pin screw terminal
- Audio inputs 1 and 2: on 3.5 jack stereo

Output Connectors:
- Video: DVI-I + HD 15F
- Audio: 5-pin screw terminal

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5 : +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply

Internal, universal, automatic, 100-250, VAC;50/60 Hz (50 W) (UL, CSA, GS, CE), ON/OFF AC Main Switch

Supplied with

- 1 x Power cable
- 1 x Set of 5 audio 5-pin screw terminals
- 1 x DVI-VGA adapter
- 1 x HD15M-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions: 19", 1U Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Octo Plus^2 TM by Analog Way is a High Resolution Digital and Analog, Computer & Video Scaler Seamless Switcher.

OCP 803 is fitted with 8 Universal A/V inputs including one DVI, and 3 outputs : 2 Analog and 1 DVI. It performs an ultra fast and smooth transition between any Video or Computer sources. It also allows a true seamless switching between one computer Input (direct) and any other Video or Computer Input.

OCP 803 is a High Performance State of the Art Up/Down Video and Computer Scaler. Ready to fit the native resolution of the latest HD display devices, it provides a high quality image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, **OCP 803** offers an Auto Setup function and a powerful Auto Clock & Phase for Computers. Each input image control - brightness, contrast, color, hue, processing,aspect ratio, zoom, etc … - can be individually set and stored in non volatile memories.

Each of the 8 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image.

One additional stereo audio input is provided to be mixed with the Video audio input lines. **OCP 803** is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the Analog Way web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is designed for high resolution A/V presentation displays, Houses of Worship, conference and boardrooms, and events.

To Control Octo Plus^2

- **RKD500-T:** Remote console with T-Bar
- **RKD500:** Remote console
- **RKD100:** Remote console
- **Axion:** High End Remote controller

Axion

RKD500-T

RKD100

Cables for Octo Plus^2

- **S.Video Cables from 1.8m/6ft to 20m/66ft:** Ref. 10009 - 10093 - 10094 - 10095
- **S. Video to BNC Cables of 1.8m/6ft and 5m/16ft:** Ref. 10102 - 10103
- **RCA Cable of 1.2m/4ft:** Ref. 10010
- **RCA / BNC Adapter Cables:** Ref. 10011
- **Jack Stereo Cable of 1.2m/4ft:** Ref. 10012
- **Audio Stereo Cable of 1.2m/4ft:** Ref. 10013
- **VGA Cables from 0.4m/1ft to 1.8m/6ft:** Ref. 10014 - 10015 - 10077
- **VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
- **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

References

> OCP803: OCTO Plus^2 with RS232 com port

- **RKD500-T *:** Remote control with T-Bar
- **RKD500*:** Remote control keypad
- **RKD100*:** Remote control keypad

* : sold separately

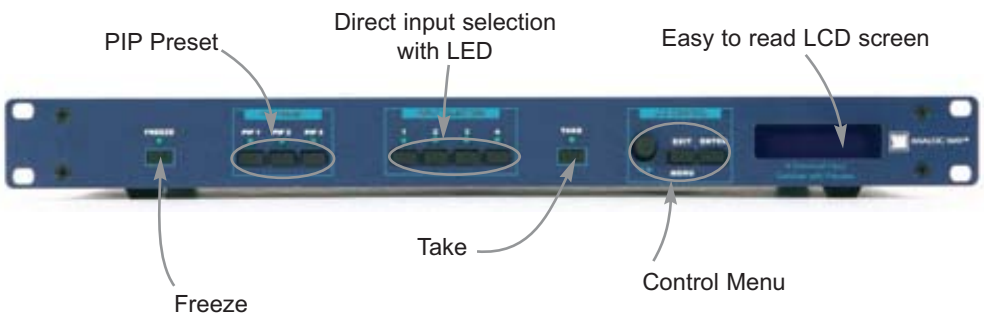
Option

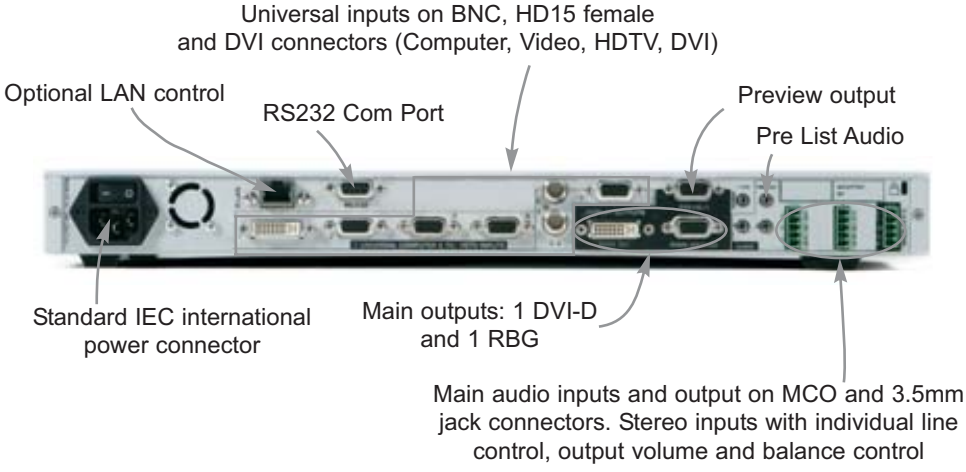
- **OPT-LAN:** Optional TCP/IP control interface

Quattro Vue™

Quattro Vue™ New! **Model.** QVP421

- HD Seamless Switcher for Conference Rooms, Houses of Worship and Large Screen Projections
- Features Scaled Preview and Hi-Res. Picture in Picture
- Analog and Digital Inputs/Outputs up to 1080p
- 4 Universal Inputs with DVI in & out





Inputs
- 4 universal inputs with DVI
- Computer and DVI up to UXGA / 1080p
- Video: NTSC/PAL/SECAM, S. Video, YUV, RGB, HDTV
- Stereo Audio with level adjustment for each input

Outputs
- Main: 1 DVI-D + 1 RGB up to UXGA / 1080p
- Preview: XGA RGBHV
- Audio Stereo Main and Pre-List with level adjustment

Effects
- PIP, Seamless and Clean Cut
- Ultra fast and smooth switching

Technical Specifications

4 Universal Inputs
- **Composite Video** NTSC = 15.735 kHz/60 Hz, PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz, PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L, 15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HDYUV 2/3 Level Sync.) 1080i/60-50Hz, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation. Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)
- **DVI**: Digital computer up to 1600x1200 RB/60Hz and 1920x1080/60Hz (Fpx: 165MHz max)

Audio Inputs

4 Stereo Inputs
- 1 balanced audio input
- 3 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Main Display Output
- 1 x output (1 on HD15 F connector, RGB HV, RGB/S or RGsB selectable (H&V separated, Sync. Composite or SOG), RGB= 0.7Vp/p (75 Ohms)
- 1 x DVI-D on DVI-I connector
- Resolution: **4/3 & 5/4** = SVGA, XGA, SXGA+, UXGA, **16/9 & 16/10** = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz and Follow

(*): depending on resolution

Preview Display Output

1 x RGB HV separated Sync - RGB = 0.7V p/p (75 Ohms), resolution: XGA, Rate: 60Hz

Main Audio Output
- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

Prelist Audio Output
- Stereo output unbalanced
- Vo = + 18 dBu max
- Zo = 300 Ohms
- G = 0dB nominal, with master volume

User Controls and Connectors

FRONT PANEL

User controls:
- Selection of inputs 1 to 4
- Programmable effect keys
- Freeze, Take
- LCD window & control buttons for menu: Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

REAR PANEL

Input Connectors:
- Input #1: DVI-I
- Inputs #2 and #3: HD 15F
- Input #4: HD 15F + 2 BNC
- Audio inputs 2 to 4: on 5-pin screw terminal
- Audio input 1: on 3.5 jack stereo

Output Connectors:
- Main Video: DVI-I + HD 15F
- Preview Video: HD 15F
- Main Audio: 5-pin screw terminal
- Prelist Audio: Jack Stereo 3.5

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5: +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply

Internal, universal, automatic, 100-250, VAC;50/60 Hz (50 W) (UL, CSA, GS, CE), ON/OFF AC Main Switch

Supplied with
- 1 x Power cable
- 1 x Set of 3 audio 5-pin screw terminals
- 1 x DVI-VGA adapter
- 1 x HD15F-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions: 19", 1U Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

Warranty

3 year warranty on parts and labor back to factory

Quattro Vue™ by Analog Way is a High Resolution Digital and Analog, Computer & Video Scaler Seamless Switcher. In addition, QVP 421 offers a true scaled preview and effects including High Resolution PIP for Computer & Video formats (see details of these effects page 38).

QVP 421 is fitted with 4 Universal A/V inputs including one DVI, and 3 outputs: 1 Analog, 1 DVI for the Main and 1 Analog for the Preview. It performs an ultra fast and smooth transition between any Video or Computer sources. It also allows true seamless switching between one computer Input (direct) and any other Video or Computer Input.

Preview : QVP 421 is fitted with a true scaled Preview out offering the facility to visualize any source before displaying it on the Main output. Preview out ensures easy and safe presentations since any Video or Computer source can be checked on a simple LCD screen before being shown to the audience.

PIP : QVP 421 creates High Quality picture insertion from any input. The PIP can be smoothly sized and moved anywhere over the background image. The PIP source can be fast & smoothly switched through a fade to black or customized color. The PIP opening offers a choice between Cut and Fade.

QVP 421 is a High Performance State of the Art Up/Down Video and Computer Scaler. Ready to fit the native resolution of the latest HD display devices, it provides a high quality image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, QVP 421 offers an Auto Setup function and a powerful Auto Clock & Phase for Computers. Each input image control - brightness, contrast, color, hue, processing, aspect ratio, zoom, etc … - can be individually set and stored in non volatile memories.

Each of the 4 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image. QVP 421 is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the Analog Way web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is designed for high resolution A/V presentation displays, Houses of Worship, conference and boardrooms, and events.

To Control Quattro Vue

- **RKD500-T:** Remote console with T-Bar. See page 70
- **RKD500:** Remote console. See page 70
- **RKD100:** Remote console. See page 70
- **Axion:** High End Remote controller. See page 66

Axion

RKD500-T

RKD100

Cables for Quattro Vue

- **S.Video Cables from 1.8m/6ft to 20m/66ft:** Ref. 10009 - 10093 - 10094 - 10095
- **S. Video to BNC Cables of 1.8m/6ft and 5m/16ft:** Ref. 10102 - 10103
- **RCA Cable of 1.2m/4ft:** Ref. 10010
- **RCA / BNC Adapter Cables:** Ref. 10011
- **Jack Stereo Cable of 1.2m/4ft:** Ref. 10012
- **Audio Stereo Cable of 1.2m/4ft:** Ref. 10013
- **VGA Cables from 0.4m/1ft to 1.8m/6ft:** Ref. 10014 - 10015 - 10077
- **VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
- **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

References

> QVP421: QUATTRO VUE with RS232 com port

- **RKD500-T *:** Remote control console with T-Bar
- **RKD500*:** Remote control console
- **RKD100*:** Remote control keypad

* : sold separately

Option

- **OPT-LAN:** Optional TCP/IP control interface

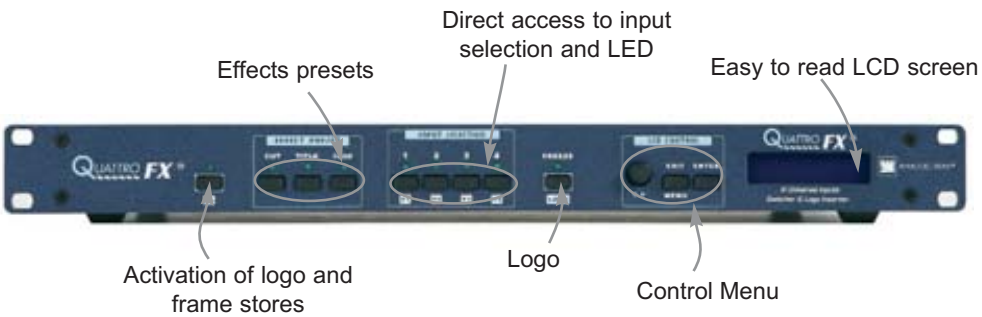
Specifications subject to change without prior notice

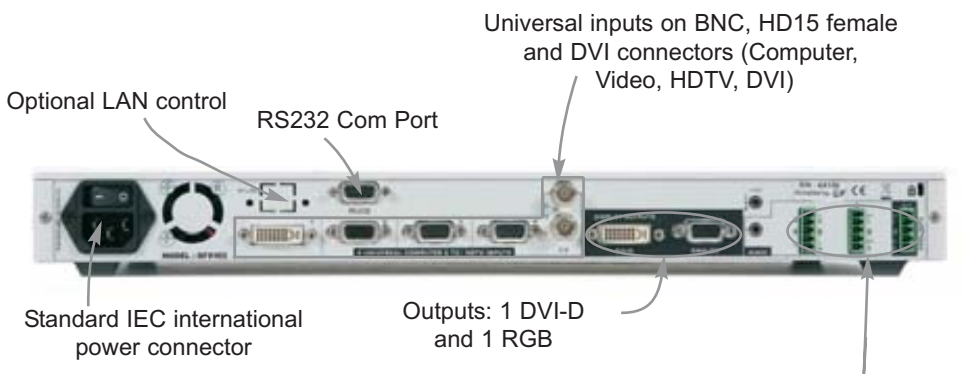
Quattro FX™

New!

Model. QFX402

- HD Seamless Switcher for Conference Rooms, Houses of Worship and Large Screen Projections
- 4 Universal Inputs with Audio:
  - NTSC / PAL / Secam, S. Video, YUV, RGB, HDTV
  - Computer up to UXGA/1080p
- Analog and Digital Inputs/Outputs up to 1080p
- Animated or Still Logo, Fade, Titling, Cut and Frame Stores





Inputs

- 4 universal inputs with DVI
- Computer and DVI up to UXGA / 1080p
- Video: NTSC/PAL/SECAM, S. Video, YUV, RGB, HDTV
- 4 Stereo Audio with level adjustment for each input

Outputs

- 1 DVI-D + 1 RGB up to UXGA / 1080p
- Audio Stereo with level adjustment

Effects

- Fade, Titling, Seamless Cut
- Ultra fast and smooth or colored switching
- Logo insertion: 1 animated and 8 still logos
- 4 Frame Stores stored in non volatile memory

Technical Specifications

4 Universal Inputs
- **Composite Video** NTSC = 15.735 kHz/60 Hz PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L 15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HDYUV 2/3 Level Sync.) 1080i/60-50Hz, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation. Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)
- **DVI**: Digital computer up to 1600x1200 RB/60Hz and 1920x1080/60Hz (Fpx: 165MHz max)

Audio Inputs

4 Stereo Inputs
- 1 balanced audio input
- 3 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Main Display Output
- 1 x Buffered output (1 on HD15 F connector) RGB HV, RGB/S or RGsB selectable (H&V separated, Sync. Composite or SOG), RGB= 0.7Vp/p (75 Ohms)
- 1 x DVI-D on DVI-I connector
- Resolution: **4/3 & 5/4** = SVGA, XGA, SXGA+, UXGA, **16/9 & 16/10** = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz and Follow

(*) : depending on resolution

Main Audio Output
- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

User Controls and Connectors

FRONT PANEL

User controls:
- Selection of inputs 1 to 4 and frame stores
- Programmable effect keys
- Freeze, logo
- LCD screen & control buttons for menu: Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

REAR PANEL

Input Connectors:
- Input #1: DVI-I
- Inputs #2 and #3: HD 15F
- Input #4: HD 15F + 2 BNC
- Audio inputs 2 to 4 and auxiliary: on 5-pin screw terminal
- Audio input 1: on 3.5 jack stereo

Output Connectors:
- Video: DVI-I + HD 15F
- Audio: 5-pin screw terminal

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5 : +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply

Internal, universal, automatic, 100-250, VAC;50/60 Hz (50 W) (UL, CSA, GS, CE), ON/OFF AC Main Switch

Supplied with
- 1 x Power cable
- 1 x Set of 3 audio 5-pin screw terminals
- 1 x DVI-VGA adapter
- 1 x HD15M-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions: 19", 1U Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Quattro FX™ by Analog Way is a High Resolution Digital and Analog, Computer & Video Scaler Seamless Switcher.

QFX 402 features many effects: fade and titling, high resolution logo insertion and frame stores (see details of effects page 38).

It is fitted with 4 Universal A/V inputs including one DVI, and 2 outputs: 1 Analog and 1 DVI. It performs an ultra fast and smooth transition between any Video or Computer sources. It also allows a true seamless cut between one Computer Input (direct) and any other Video or Computer Input.

QUATTRO FX is a High Performance State of the Art Up/Down Video and Computer Scaler. Ready to fit the native resolution of the latest HD display devices, it provides a high quality image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, QFX 402 offers an Auto Setup function and a Powerful Auto Clock & Phase for Computers. Each input image control - brightness, contrast, color, hue, processing, aspect ratio, zoom, etc … - can be individually set and stored in non volatile memories.

Each of the 4 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image. QFX 402 is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the Analog Way web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is designed for high resolution A/V presentation displays, Houses of Worship, conference and boardrooms, and events.

To Control Quattro FX

- **RKD500-T:** Remote console with T-Bar. See page 70
- **RKD500:** Remote console. See page 70
- **RKD100:** Remote console. See page 70
- **Axion:** High End Remote controller. See page 66

Axion

RKD500-T

RKD100

Cables for Quattro FX

- **S.Video Cables from 1.8m/6ft to 20m/66ft:** Ref. 10009 - 10093 - 10094 - 10095
- **S. Video to BNC Cables of 1.8m/6ft and 5m/16ft:** Ref. 10102 - 10103
- **RCA Cable of 1.2m/4ft:** Ref. 10010
- **RCA / BNC Adapter Cables:** Ref. 10011
- **Jack Stereo Cable of 1.2m/4ft:** Ref. 10012
- **Audio Stereo Cable of 1.2m/4ft:** Ref. 10013
- **VGA Cables from 0.4m/1ft to 1.8m/6ft:** Ref. 10014 - 10015 - 10077
- **VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
- **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

References

> QFX402: QUATTRO FX with RS232 com port

- **RKD500*:** Remote control keypad
- **RKD500-T *:** Remote control keypad with T-Bar
- **RKD100*:** Remote control keypad

* : sold separately

Option

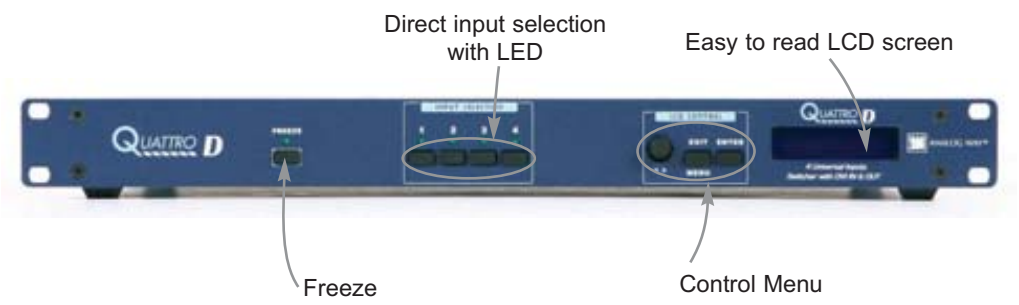
- **OPT-LAN:** Optional TCP/IP control interface

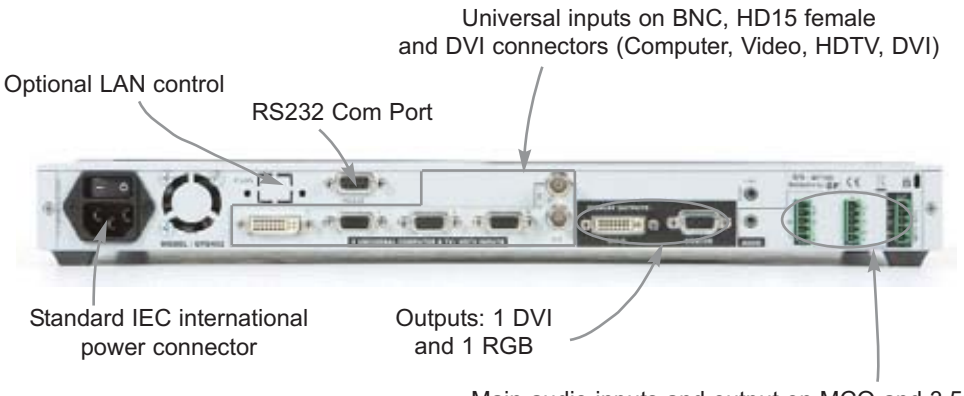
Quattro D™

New!

Model. QTD402

- HD Seamless Switcher for Conference Rooms, Houses of Worship and Large Screen Projections
- 4 Universal Inputs with Audio:
  - NTSC / PAL / Secam, S. Video, YUV, RGB, HDTV
  - Computer up to UXGA/1080p
- Analog and Digital Inputs/Outputs up to 1080p





Inputs

- 4 universal inputs with 1 DVI
- Computer and DVI up to UXGA / 1080p
- Video : NTSC/PAL/SECAM, S. Video, YUV, RGB, HDTV
- 4 Stereo Audio with level adjustment for each input

Outputs

- 1 DVI + 1 RGB up to UXGA / 1080p
- Audio Stereo with level adjustment

Effects

- Seamless Cut
- Ultra fast and smooth or colored switching
- Auto centering of image
- Time Base Corrector

Technical Specifications

4 Universal Inputs
- **Composite Video** NTSC = 15.735 kHz/60 Hz, PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz, PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L, 15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HDYUV 2/3 Level Sync.) 1080i/60-50Hz, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation. Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)
- **DVI**: Digital computer up to 1600x1200 RB/60Hz and 1920x1080/60Hz (Fpx: 165MHz max)

Audio Inputs

4 Stereo Inputs
- 1 balanced audio input
- 3 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Display Output
- 1 x Buffered output (1 on HD15 F connector connector) RGB HV, RGB/S or RGsB selectable (H&V separated, Sync. Composite or SOG), RGB= 0.7Vp/p (75 Ohms)
- 1 x DVI-D on DVI-I connector
- Resolution: **4/3 & 5/4** = SVGA, XGA, SXGA+, UXGA, **16/9 & 16/10** = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz (Follow)

(*) : depending on resolution

Audio Output
- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

User Controls and Connectors

FRONT PANEL

User controls:
- Selection of inputs 1 to 4
- Freeze
- LCD window & control buttons for menu:

Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

REAR PANEL

Input Connectors:
- Input #1: DVI-I
- Inputs #2 and #3: HD 15F
- Input #4: HD 15F + 2 BNC
- Audio inputs 2 to 4 and auxiliary: on 5-pin screw terminal
- Audio inputs 1: on 3.5 jack stereo

Output Connectors:
- Video: DVI-I + HD 15F
- Audio: 5-pin screw terminal

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5: +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply

Internal, universal, automatic, 100-250 VAC;50/60 Hz (50 W) (UL, CSA, GS, CE), ON/OFF AC Main Switch

Supplied with
- 1 x Power cable
- 1 x Set of 3 audio 5-pin screw terminals
- 1 x DVI-VGA adapter
- 1 x HD15M-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions: 19", 1U Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Quattro D™ by Analog Way is a High Resolution Digital and Analog, Computer & Video Scaler Seamless Switcher.

QTD 402 is fitted with 4 Universal A/V inputs including one DVI, and 2 outputs : 1 Analog and 1 DVI. It performs an ultra fast and smooth transition between any Video or Computer sources. It also allows a true seamless switching between one computer Input (direct) and any other Video or Computer Input.

QUATTRO D is a **High Performance State of the Art Up/Down Video and Computer Scaler**. Ready to fit the native resolution of the latest HD display devices, it provides a high quality image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, **QTD 402** offers an Auto Setup function and a Powerful Auto Clock & Phase for Computers. Each input image control - brightness, contrast, color, hue, processing,aspect ratio, zoom, etc ... - can be individually set and stored in non volatile memories.

Each of the 4 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image. **QTD 402** is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Full Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the **Analog Way** web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is designed for high resolution A/V presentation displays, Houses of Worship, conference and boardrooms, and events.

To Control Quattro D

- **RKD500-T:** Remote console with T-Bar. See page 70
- **RKD500:** Remote console. See page 70
- **RKD100:** Remote console. See page 70
- **Axion:** High End Remote controller. See page 66

Axion

RKD500-T

RKD100

Cables for Quattro D

- **S.Video Cables from 1.8m/6ft to 20m/66ft:** Ref. 10009 - 10093 - 10094 - 10095
- **S. Video to BNC Cables of 1.8m/6ft and 5m/16ft:** Ref. 10102 - 10103
- **RCA Cable of 1.2m/4ft:** Ref. 10010
- **RCA / BNC Adapter Cables:** Ref. 10011
- **Jack Stereo Cable of 1.2m/4ft:** Ref. 10012
- **Audio Stereo Cable of 1.2m/4ft:** Ref. 10013
- **VGA Cables from 0.4m/1ft to 1.8m/6ft:** Ref. 10014 - 10015 - 10077
- **VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
- **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

References

> QTD402: QUATTRO D with RS232 com port

- **RKD500-T *:** Remote control with T-Bar
- **RKD500*:** Remote control
- **RKD100*:** Remote control

* : sold separately

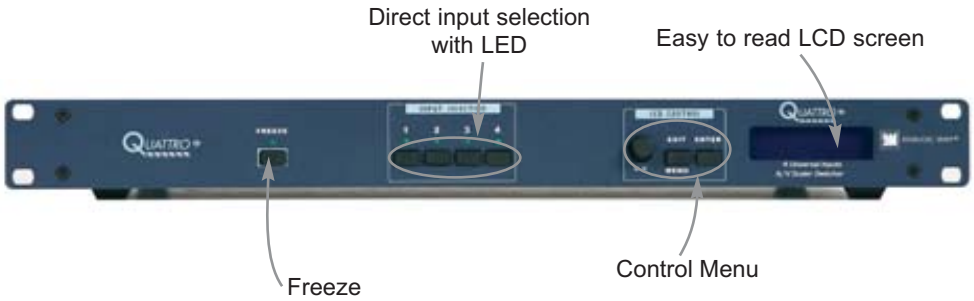
Option

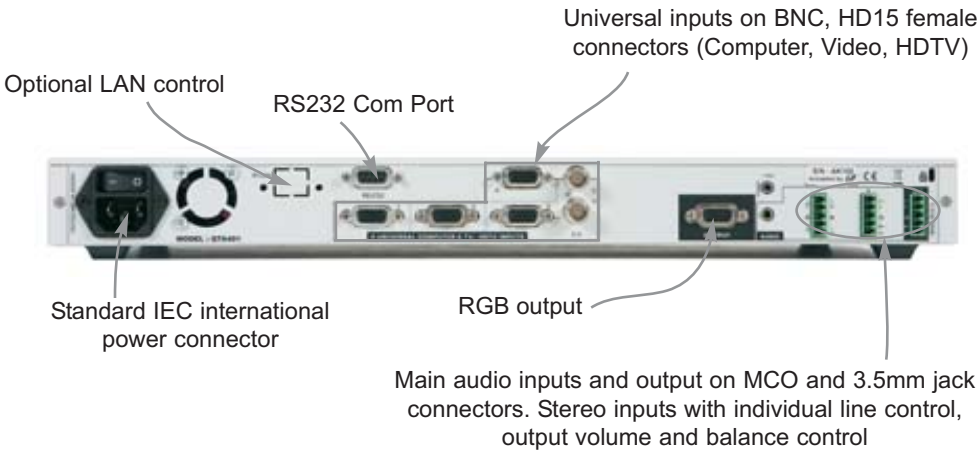
- **OPT-LAN:** Optional TCP/IP control interface

Quattro™

Quattro™ — New! — Model. QTA401

- HD Seamless Switcher for Conference Rooms, Houses of Worship and Large Screen Projections
- 4 Universal Inputs with Audio:
  - NTSC / PAL / Secam, S. Video, YUV, RGB, HDTV
  - Computer up to UXGA
- Scaled A/V Output up to 1920x1080 or 1600x1200





Inputs
- 4 universal inputs
- Computer up to UXGA
- Video: NTSC/PAL/SECAM, S. Video, YUV, RGB, HDTV
- 4 Stereo Audio with level adjustment for each input

Output
- 1 RGB up to UXGA /1080p
- Audio Stereo with level adjustment

Effects
- Seamless Cut
- Ultra fast and smooth or colored switching
- Auto centering of image
- Time Base Corrector

Technical Specifications

4 Universal Inputs
- **Composite Video** NTSC = 15.735 kHz/60 Hz, PAL/SECAM = 15.625 kHz/50Hz
- **S.Video (Y/C)** NTSC = 15.735 kHz, PAL/SECAM = 15.625 kHz/50Hz
- **Component (YUV)** 15.625 kHz/50 Hz – 625L, 15.735 kHz/60 Hz – 525L
- **RGB/S** (TTL or 0.3V Analog), **RGsB** (SOG: 0.3V Analog), 15.625 kHz/50 Hz - 625L, 15.735 kHz/ 60 Hz - 525L
- **HDTV**: Component (HDYUV 2/3 Level Sync.) 1080i/60-50Hz, 720p/60-50Hz, 480p/60Hz
- **Computer** (RGB HV, RGB/S and RGsB): PC, Mac, Workstation. Automatic Sync. & centering. Resolution from 640x480 to 1600x1200 (up to 110kHz)

Audio Inputs

4 Stereo Inputs
- 1 balanced audio input
- 3 unbalanced audio inputs
- Vi = + 18 dBu max
- Zi = 20 kOhms unbalanced
- Zi = 40 kOhms balanced
- Gain: adjustable

Display Output
- RGB HV, RGB/S or RGsB selectable output (H&V separated, Sync. Composite or SOG), RGB=0.7Vp/p (75 Ohms)
- Resolution: **4/3 & 5/4** = SVGA, XGA, SXGA+, UXGA, **16/9 & 16/10** = WVGA, WSVGA, WXGA, WSXGA, WSXGA+, 1080p
- Rate: Internal 50, 60, 72(*) & 75(*) Hz and Follow

(*): depending on resolution

Audio Output
- Stereo output (balanced & unbalanced)
- Vo = + 18 dBu max - Zo = 300 Ohms (unbalanced)
- Vo = + 24 dBu max - Zo = 600 Ohms (balanced)
- G = 0dB nominal, with volume

User Controls and Connectors

FRONT PANEL

User controls:
- Selection of inputs 1 to 4
- Freeze
- LCD screen & control buttons for menu: Test patterns, proc. image adjust., input format selection, output format display, output format & sync., audio input level and output, volume adjustments, position & size adjustments, front panel control lockout

REAR PANEL

Input Connectors:
- Input #1, #2 and #4: HD 15F
- Input #3: HD 15F + 2 BNC
- Audio inputs 2 to 4: on 5-pin screw terminal
- Audio input 1: on 3.5 jack stereo

Output Connectors:
- Video: HD 15F
- Audio: 5-pin screw terminal

Other:
- 1 x DB9F with 2 RS232 ports
- 1 x Jack 3.5: +12Vdc trigger
- Optional Ethernet Port 10/100BT: RJ45

Power Supply

Internal, universal, automatic, 100-250 VAC; 50/60 Hz (50 W) (UL, CSA, GS, CE), ON/OFF AC Main Switch

Supplied with
- 1 x Power cable
- 1 x Set of 3 audio 5-pin screw terminals
- 1 x HD15M-5BNCF adapter cable of 0.5m (1.5ft)
- 1 x Remote control software
- 1 x User Manual

Dimensions: 19", 1U Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.5 kg (7.7 lbs)

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Quattro™ by Analog Way is a High Resolution, Computer & Video Scaler Seamless Switcher.

QTA 401 is fitted with 4 Universal A/V inputs and 1 Analog output. It performs an ultra fast and smooth transition between any Video or Computer source. It offers a clean cut between any input.

QUATTRO is a High Performance, State of the Art, Up/Down Video and Computer Scaler. Ready to fit the native resolution of the latest HD display devices, it provides a superior image thanks to its high quality digital decoder, improved 3:2 and 2:2 pull down circuitry, auto-adaptative pixel by pixel 3D motion compensation, time base corrector, frame rate converter & follower.

Easy to use, QTA 401 offers an Auto Setup function and a Powerful Auto Clock & Phase for Computers. Each input image control - brightness, contrast, color, hue, processing, aspect ratio, zoom, etc ... - can be individually set and stored in non volatile memories.

Each of the 4 Inputs is fitted with a stereo audio line. The audio can either follow or break away from the Video image. QTA 401 is fitted with a Dual RS232 Com port for Integral remote control and automatic control of other devices in the installation. Field upgradable firmware maintains the high value of your equipment. Upgrades are available on the Analog Way web site. An optional TCP/IP connection allows for remote control and/or upgrade.

This ultra compact and user friendly device is designed for high resolution A/V presentation displays, Houses of Worship, conference and boardrooms, and events.

To Control Quattro

- **RKD500-T:** Remote console with T-Bar. See page 70
- **RKD500:** Remote console. See page 70
- **RKD100:** Remote console. See page 70
- **Axion:** High End Remote controller. See page 66

Axion

RKD500-T

RKD100

Cables for Quattro

- **S.Video Cables from 1.8m/6ft to 20m/66ft:** Ref. 10009 - 10093 - 10094 - 10095
- **S. Video to BNC Cables of 1.8m/6ft and 5m/16ft:** Ref. 10102 - 10103
- **RCA Cable of 1.2m/4ft:** Ref. 10010
- **RCA / BNC Adapter Cables:** Ref. 10011
- **Jack Stereo Cable of 1.2m/4ft:** Ref. 10012
- **Audio Stereo Cable of 1.2m/4ft:** Ref. 10013
- **VGA Cables from 0.4m/1ft to 1.8m/6ft:** Ref. 10014 - 10015 - 10077
- **VGA/BNC adapter Cables of 1.8m/6ft and 3m/10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
- **Remote Cables from 0.5m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

References

> QTA401: QUATTRO with RS232 com port

- **RKD500*:** Remote control
- **RKD500-T *:** Remote control with T-Bar
- **RKD100*:** Remote control

*: sold separately

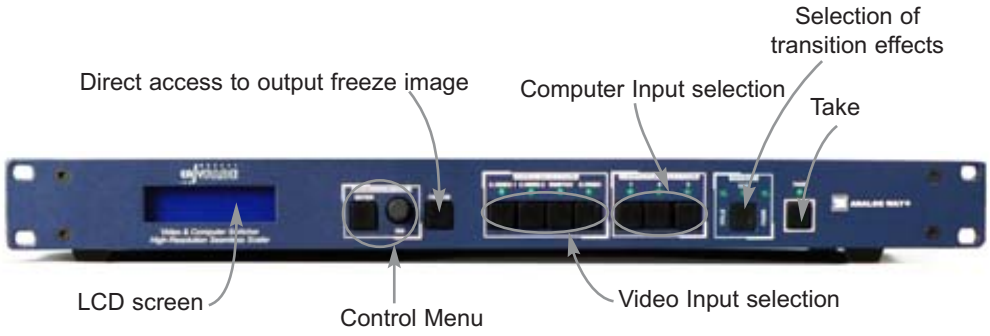
Option

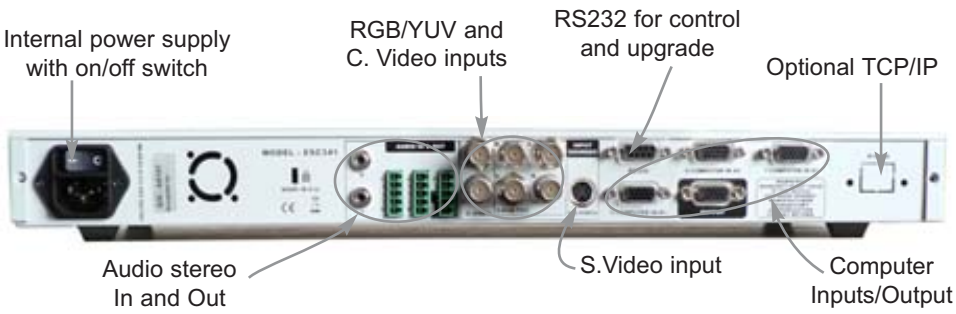
- **OPT-LAN:** Optional TCP/IP control interface

Easy Fade™

Easy Fade™ New! **Model.** EFD341

- High Resolution Video Seamless Switcher/Scaler with Audio
- Effects: Cut, Fade, Title between Computer and Video sources
- User-friendly - Direct Access to Main Functionalities
- Computer Output format up to 1600 x 1200





Features

- Inputs: YUV, Composite, S.Video, RGB, Computer
- RGB outputs up to UXGA
- Special Effects: Cross Fading, Cut and Titling
- Aspect Ratio preserved
- Frame Rate Converter and Follower & ARC
- Auto 3:2/2:2 Pull Down
- Audio stereo Switcher
- RS232 Com Port
- Remote control software
- Freeze button
- Frame alert memory
- Optional TCP/IP control
- 19” rack case

Technical Specifications

Video Inputs
- **2 x Composite Video**
  PAL/SECAM = 15.625 kHz / 50Hz
  NTSC = 15.735 kHz / 60 Hz
  Black and White : 15 kHz/50-60Hz
- **1 x S.Video (Y/C)**
  PAL/SECAM = 15.625 kHz / 50 Hz
  NTSC = 15.735 kHz / 60 Hz
- **1 x Component or RGB/S or RGsB**
  15.625 kHz/50Hz - 625L
  15.735 kHz/60Hz - 525L
  RGB/YUV (0.7 Vp/p)
  Sync (TTL or 0.3V Analog)
  RGsB (SOG: 0.3V Analog)
- **Audio Stereo Inputs**

COMPUTER INPUTS (Active Loopthrough)
- 3 x Computer (PC, Mac) RGBHV, RGB/S
- Resolution from 640 x 480 up to 1600 x 1200

Display Output
- **For Video Input:**
  - 2 x RGBHV, RGBS or RGsB selectable (buffered H & V separate Sync. or Composite sync.)
  - RGB = 0.7 Vp/p (75 Ohms load)
  - Selectable output resolution: 4/3: SVGA: 800x600
    XGA: 1024x768
    SXGA: 1280x1024
    SXGA+: 1400x1050
    UXGA: 1600x1200
    16/9: WVGA: 852x480
    720p: 1280x720
    WXGA: 1366x768 (D-ILA)
- **For Computer input**: from VGA to UXGA (24 kHz to 85 kHz), RGB HV/S identical to the input (buffered loopthrough)
- Audio stereo output

User Controls and Connectors
FRONT PANEL
- Input Selection from Input 1 to 7
- Freeze: Freeze button
- Effect selection: Cut, fade, titling
- Take
- LCD screen & control buttons for:
  - Sharpness, brightness, contrast, color, hue
  - Overscan/underscan
  - Aspect Ratio (Source & Screen)
  - Output format & Sync.
  - Horizontal and vertical position and size adjustments
  - Front panel control locking

REAR PANEL
Input Connectors:
- Composite 1: BNC connector
- Composite 2: BNC connector
- S.Video: Y/C Mini DIN connector
- RGB/S & Component: 3/4 BNC connectors
- Computer: HD15F connector
- Audio: MCO 5 pin connector and 3.5mm jack stereo

Output Connectors:
- RGB on HD15
- Audio: MCO 5 pin connector

Other:
- DB9-F: Dual RS232 COM Port for full control of the device and for control of distant display
- RJ45: Optional Ethernet Control
- IEC for mains + On/Off switch

Power Supply
Internal, Universal, and Automatic 100 - 250 VAC; 50 / 60Hz (20W) (UL, CSA, CE)

Supplied with
- 1 x AC power cable
- 3 x MCO connectors
- 1 x Remote control software (CD)
- 1 x User manual

Dimensions: 19", 1 unit compatible
D 10.43" x W 19" x H 1.74"
D 265 mm x W 482 mm x H 44 mm

Weight: 3 kg (6.6 lbs)

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Easy Fade™ by Analog Way combines the functions of a High Resolution Video Scaler with an Audio Video Switcher. It is a state of the art Scaler / Line Multiplier / Quadrupler / Doubler which significantly increases Video image resolution and brightness. 3 Computer inputs are provided for direct display of your presentations or Internet applications. It also allows Audio Stereo switching.

Easy Fade is fitted with 4 Video Inputs including one RGB or YUV component on BNC. Easy Fade includes an Analog output on an HD15 connector.

Easy Fade includes 2 switching modes: Seamless or smooth switching. In seamless mode, the computer output format is identical to one of the 3 Computer inputs, the one selected as a reference. It allows to switch with cut, fade and titling effects between this PC and any Video source. This makes it a perfect solution for House of Worship applications.

Easy Fade features a non-volatile frame memory that can be used as a "welcome" or an "alert" message. This frame can be acquired from any Video input or it can be downloaded from a computer via RS232 or optional IP connection.

The very high quality decoder of the Easy Fade includes an advanced comb filter, an emphasized "natural" color processing, a highly robust sync. detection and a 3D (pixel by pixel basis) auto-adaptive de-interlacing scheme (for motion artifacts). With automatic correction of the "film to video" transfer (3/2 & 2/2 pull down), it provides a superb image.

Image parameters such as brightness, contrast, color, aspect ratio and sharpness can be easily adjusted by the user. These parameters are stored for each Video input. A preset command enables to go back to factory settings. Easy Fade also features an automatic or manual stand-by mode, activated on the front panel or with the RS232 control. A second Com Port is available to automatically Start/Stop a distant display device according to the stand by status of the Easy Fade.

Black and white composite is also accepted (for industrial, security, camera applications, etc...) on Easy Fade. The input source aspect ratio 4/3, 16/9, widescreen can be selected as well as the size of the screen (4/3 - 16/9). The frame conversion & time base correction make it a great solution for Professional AV and Home Theater applications.

Cables for Easy Fade

- **S.Video Cables from 1.8m / 6ft to 20m / 66 ft:** Ref. 10009 - 10093 - 10094 - 10095
- **VGA Cables of 0.4m / 1ft and 1.8m / 6ft (M/F and M/M):** Ref. 10014 - 10015 - 10077
- **VGA/BNC Adaptor of 1.8m / 6ft and 3m / 10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
- **Remote Cables from 0.5m / 1ft to 30m / 100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
- **Jack Stereo Cable of 1.2m / 4ft:** Ref. 10012 - 10013

Reference

> EFD341: Easy Fade™

Option

- OPT-LAN: Optional TCP/IP control interface

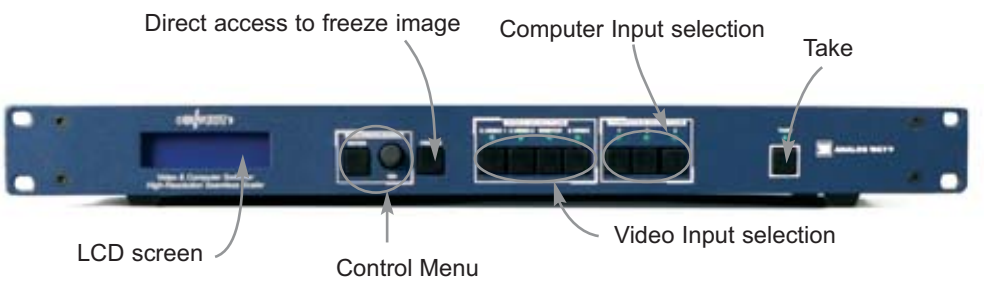
Easy Cut™

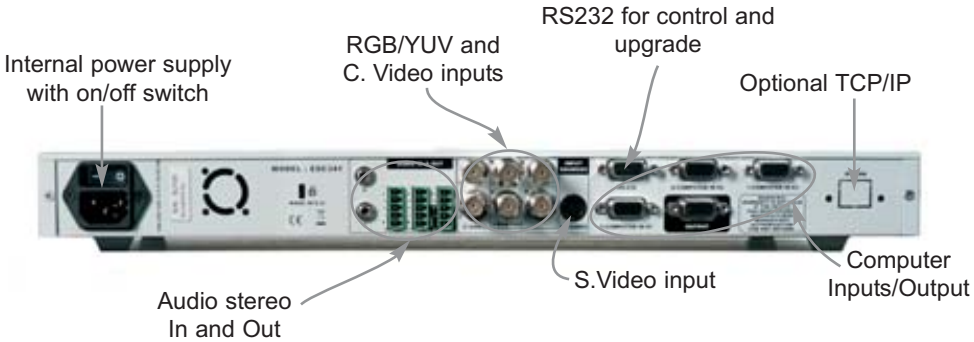
Easy Cut™

New!

Model. ESC341

- High Resolution Video Seamless Switcher/Scaler with Audio
- Cut and Smooth Switching
- User-Friendly/Direct Access to Main Functionalities
- Computer Output format up to 1600 x 1200





Features

- Inputs: YUV, Composite, S.Video, RGB, Computer
- RGB output up to UXGA
- Aspect Ratio preserved
- Frame Rate Converter and Follower & ARC
- Auto 3:2/2:2 Pull Down
- Audio stereo Switcher
- RS232 Com Port
- Remote control software
- Freeze button
- Frame alert memory
- Optional TCP/IP control
- 19” rack case

Technical Specifications

Video Inputs
- **2 x Composite Video**
  PAL/SECAM = 15.625 kHz / 50Hz
  NTSC = 15.735 kHz / 60 Hz
  Black and White : 15 kHz/50-60Hz
- **1 x S.Video (Y/C)**
  PAL/SECAM = 15.625 kHz / 50Hz
  NTSC = 15.735 kHz / 60Hz
- **1 x Component or RGB/S or RGsB**
  15.625 kHz/50Hz - 625L
  15.735 kHz/60Hz - 525L
  RGB/YUV (0.7 Vp/p)
  Sync (TTL or 0.3V Analog)
  RGsB (SOG: 0.3V Analog)
- **Audio Stereo Input**

Computer Inputs (active loopthrough)
- **3 x Computer (PC, Mac) RGBHV, RGB/S**
  Resolution from 640 x 480 up to 1600 x 1200

Display Output
- **For Video Input:**
  - 2 x RGBHV, RGBS or RGsB selectable (buffered H & V separate Sync. or Composite sync.)
  - RGB = 0.7 Vp/p (75 Ohms load)
  - Selectable output resolution: 4/3: SVGA: 800x600
    XGA: 1024x768
    SXGA: 1280x1024
    SXGA+: 1400x1050
    UXGA: 1600x1200
    16/9: WVGA: 852x480
    720p: 1280x720
    WXGA: 1366x768 (D-ILA)
- **For Computer input:** from VGA to UXGA (24 kHz to 85 kHz), RGB HV/S identical to the input (buffered loopthrough)
- **Audio stereo output**

User Controls and Connectors

FRONT PANEL
- **Input Selection** from Input 1 to 7
- **Freeze**: Freeze button
- **Effect selection**: Cut, fade, titling
- **Take**
- **LCD Window & control buttons for**:
  - Sharpness, brightness, contrast, color, hue
  - Overscan/underscan
  - Aspect Ratio (Source & Screen)
  - Output format & Sync.
  - Horizontal and vertical position and size adjustments
  - Front panel control locking

REAR PANEL
- **Input Connectors:**
  - Composite 1: BNC connector
  - Composite 2: BNC connector
  - S.Video: Y/C Mini DIN connector
  - RGB/S & Component: 3/4 BNC connectors
  - Computer: HD15F connector
  - Audio: MCO 5 pin connector and 3.5mm jack stereo
- **Output Connectors:**
  - RGB on HD15
  - Audio: MCO 5 pin connector
- **Other:**
  - DB9-F: Dual RS232 COM Port for full control of the device and for control of distant display
  - RJ45: Optional Ethernet Control
  - IEC for mains + On/Off switch

Power Supply
Internal, Universal, and Automatic, 100 - 250 VAC; 50 / 60Hz (20W) (UL, CSA, CE)

Supplied with
- 1 x AC power cable
- 3 x MCO connectors
- 1 x Remote control software (CD)
- 1 x User manual

Dimensions: 19", 1 unit compatible
- D 10.43" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3 kg / 6.6 lbs

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Easy Cut™ by Analog Way combines the functions of a High Resolution Video Scaler with an Audio Video Switcher. It is a state of the art Scaler / Line Multiplier / Quadrupler / Doubler which significantly increases Video image resolution and brightness. 3 Computer inputs are provided for direct display of your presentations or Internet applications. It also allows Audio Stereo switching.

Easy Cut is fitted with 4 Video Inputs including one RGB or YUV component on BNC. Easy Cut outputs an Analog RGB HV Computer format on an HD15 connector.

Easy Cut includes 2 switching modes: Seamless or smooth switching. In seamless mode, the computer output format is identical to one of the 3 Computer inputs, the one selected as the reference. It is possible to switch with a seamless cut between this PC and any Video source.

Easy Cut features a non-volatile frame memory that can be used as a "welcome " or an "alert" message. This frame can be acquired from any Video input or it can be downloaded from a computer via RS232 or optional IP connection.

The very high quality decoder of the Easy Cut includes an advanced comb filter, an emphasized "natural" color processing, a highly robust sync. detection and a new enhanced 3D (pixel by pixel basis) auto-adaptive de-interlacing scheme (for motion artifacts). With automatic correction of the "film to video" transfer (3/2 & 2/2 pull down), it provides a superb image.

Image parameters such as brightness, contrast, color, aspect ratio and sharpness can be easily adjusted by the user. These parameters are stored for each Video input. A preset command enables to go back to factory settings. Easy Cut also features an automatic or manual stand-by mode, activated on the front panel or with the RS232 control. A second Com Port is available to automatically Start/Stop a distant display device according to the stand by status of the Easy Cut.

Black and white composite is also accepted (for industrial, security, camera applications, etc...) on Easy Cut. The input source aspect ratio 4/3, 16/9, widescreen can be selected as well as the size of the screen (4/3 - 16/9). The frame conversion & time base correction make it a great solution for Profesionnal AV and Home Theater applications.

Cables for Easy Cut

- **S.Video Cables from 1.8m / 6ft to 20m / 66 ft:** Ref. 10009 - 10093 - 10094 - 10095
- **VGA Cables of 0.4m / 1ft and 1.8m / 6ft (M/F and M/M):** Ref. 10014 - 10015 - 10077
- **VGA/BNC Adaptor of 1.8m / 6ft and 3m / 10ft (M/M and F/M)**: Ref. 10023 - 10024 - 10025 - 10026
- **Remote Cables from 0.5m / 1ft to 30m / 100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
- **Jack Stereo Cable of 1.2m / 4ft:** Ref. 10012 - 10013

Reference

> ESC341: Easy Cut™

Option

- OPT-LAN: Optional TCP/IP control interface

Product Comparison: Analog Way Consoles

	AXION	TRIPLIX	RK8022-T	RKD500-T	RKD100	Show Manager OE	Manager Stage
iX Range	✓	✓	✓			✓	✓
Octo Vue Series	✓			✓	✓	✓	✓
Octo^2 Series	✓			✓	✓	✓	✓
Quattro Series	✓			✓	✓	✓	
T-Bar	✓	✓	(1)	(1)	✓	✓	✓
Ethernet (RJ45)	✓		✓	option	option		
Programmable sequences	✓					✓	✓
LCD for control menu	✓	✓	✓	✓			
Touch screen	✓						
Joystick	✓						
USB Port	✓						

(1) Also available without T-Bar

Consoles

Axion

New!

p. 66

> High End Remote Controller for Large Events and Multi-Venue Shows
> Controls up to 6 Screen Configurations, each in a single or multipe display device configuration
> Joystick with Direct Effect Access
> Preview of Multi-screen Configurations on 7” WVGA Color Touch Panel

TripliX

p. 68

> Large Event Remote Console
> Controls simultaneously or independently up to 3 iX Seamless Switchers
> Compact, User-friendly and Easy to Connect Device

RK8022-T*

p. 69

> Event Remote Console
> Front panel with input selection, direct access to effects, freeze, take, black control, and picture adjustments
> Intuitive menu with user friendly set up and all image parameters

RKD500-T*

New!

p. 70

> Event Remote Console
> LCD screen, T-Bar and direct access to most useful functions
> Compact, easy to use and to connect by RS232 com port

RKD100

New!

p. 70

> Remote control keypad
> Performs all Audio and Video switching operations
> Very easy to connect by RS232 com port
> Does not require any external power

Manager Stage

p. 71

> Application specific software to control unlimited number of iX Switchers for large presentations, live or programmed
> Comprehensive graphical user interface with preview

Show Manager OE

p. 72

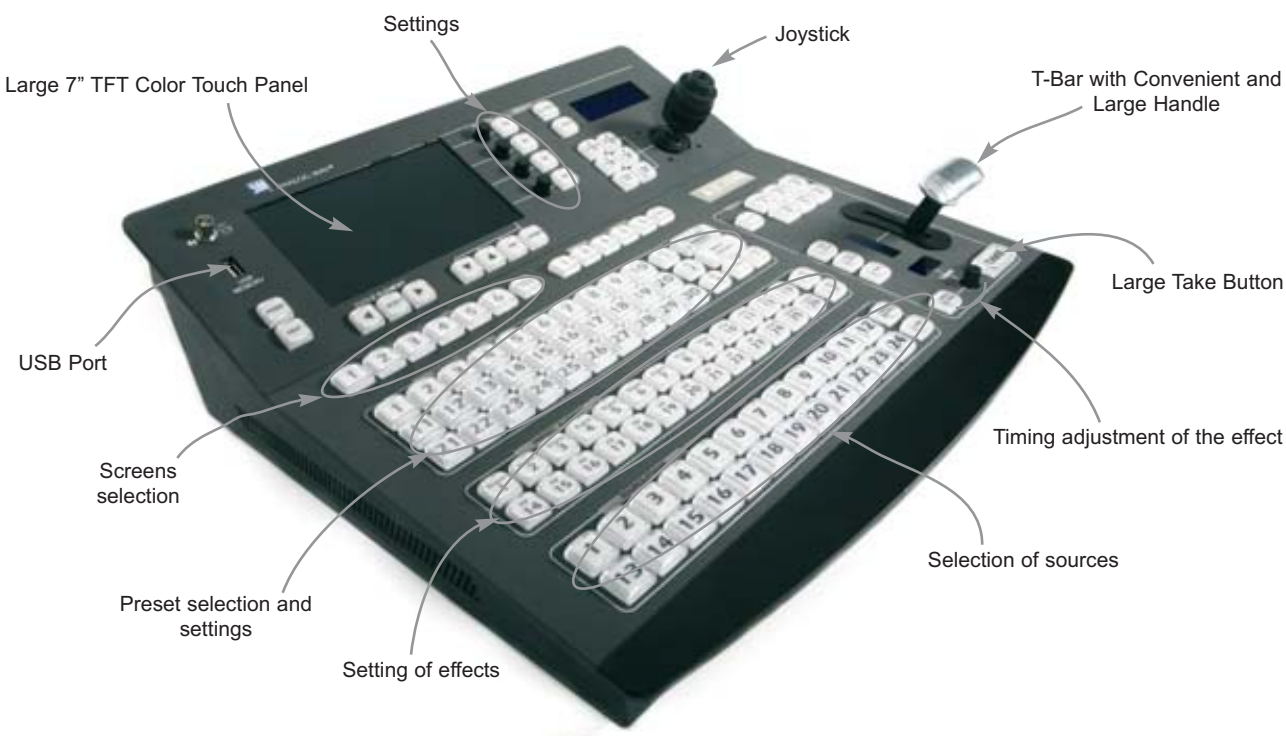
> Application Specific Software to manage simultaneously up to 16 Display Devices with iX Switchers and a PC

*** Also available without T-Bar**

Axion™

Model. ARC100

- High End Remote Controller for Large Events / Multi-venues
- Controls simultaneously up to 6 Screen Configurations, Single or Multiple
- For the Control of Several Switchers of the *iX*, Octo Vue, Octo^2 and Quattro Ranges
- Joystick with Direct Effect Access
- Preview of Multi-screen Configurations on 7” WVGA Color Touch Panel



Technical Specifications

User Controls
- TFT touch screen, 7" (18 cm)
- Buttons for direct access to inputs
- Buttons for direct access to switchers
- User programmable buttons
- Take, Freeze, Main and Preview selection
- T-Bar for smooth manually controlled transitions
- Joystick for easy and fast set up of image or effect parameters

Input/Output Connectors
- RJ45 for TCP/IP Ethernet connection
- USB port
- RS232 Com Port

Power Supply
Internal, universal, automatic 100-250 VAC; 50/60 Hz (130W) (UL, CSA, GS, CE) On/Off power switch

Supplied with
- 1 x Power cable
- 1 x User manual

Dimensions - Compatible 19", 6U
- P 10.5" x L 17.5" x H 4.35"
  P 265 mm x L 440 mm x H 110 mm
- Unit: P 10.5" x L 17.5" x H 4.35"
  P 265 mm x L 440 mm x H 110 mm

Weight: 9 kg (20 lbs)

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Axion™ by **Analog Way** is a **Powerful High End Remote Controller** to manage, independently or simultaneously, several Switchers of the **iX**, **Octo Vue**, **Octo²**, **Quattro** ranges and other systems, either as stand alone boxes or any kind of combination, including soft-edge blending.

Once connected to the **Analog Way** Switchers, **Axion** can control up to 6 independent screen configurations in different locations (single display or multiple projectors in soft-edge blended mode). **Axion** controls all the effects and functionalities of the **iX** Switchers:

- Control of soft-edge blended presentations, on up to 6 different screens, horizontally or vertically,
- Size, shape, and position of the PIP,
- Transition effects,
- Control of sequences,
- Configuration of each input/output of the controlled Switchers.

Designed with a 16/9 TFT color touch screen for preview of all configurations, **Axion** is especially dedicated to facilitate the setting and programming of presentations on multi-screens. It perfectly fits high end large events with multi-rooms and very large screens using soft-edge blended technology.

The numerous user friendly, customizable and configurable presets enable preparation of the screen configuration, so that they are easily accessible during the presentation. A last minute modification is easy thanks to the direct input/output selection access.

Also equipped with a USB port, the complete configuration of the event can be saved for future use.

With its robust and “Live resistant” buttons and its quality T-Bar and joystick, **Axion** will help to manage multi-screen, multi-location live presentations with a total peace of mind.

Reference

> ARC100: Axion™

TripliX™

TripliX™

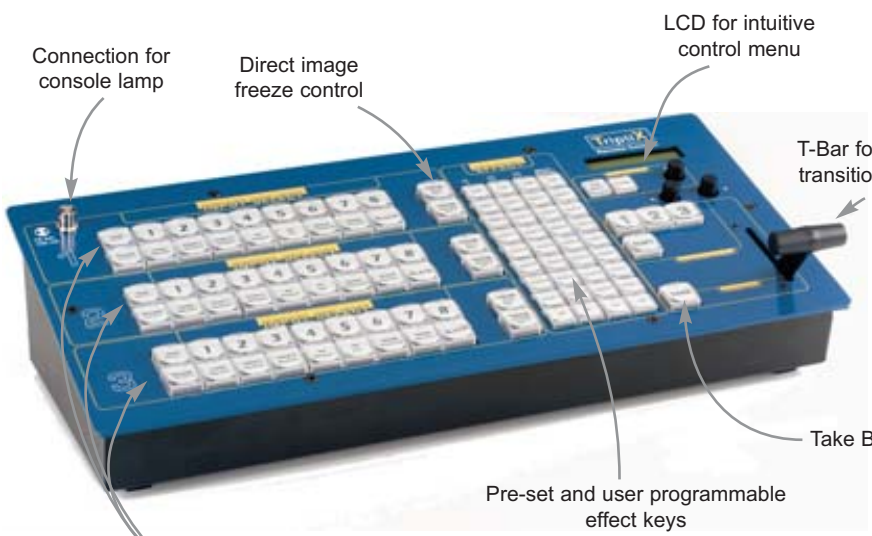
Model. TRC8022

- Event Remote Console for Di-VentiX, CentriX, EventiX, NatiX
- For the Control of up to 3 iX Seamless Switchers
- Compact, User-friendly and Easy to Connect Device

TripliX™ allows to simultaneously or independently control up to 3 units of the powerful iX range Seamless Switchers: **Di-VentiX**, **EventiX**, **CentriX** and **NatiX**.

Up to 24 sources can be displayed on 3 screens (6 in matrix mode). All the sequences and effects of the iX Range (cut, fade, titling, PIP and wipe) can be synchronized or separately activated, automatically or with the T-Bar.

TripliX is compact, easy to use and to connect, and designed to be integrated in any 19" rack control room. The combination of **TripliX** and an iX Seamless Switcher can be used together with **Show Manager Open Edition** and/or **Cross Blender** for spectacular wide screen presentations.



Technical Specifications

LCD Window and Control Buttons for
- Input format status
- Output format & sync. selection
- Switching effect transition
- Contrast and black level, RGB, color, hue, brightness, sharpness and gamma adjustments
- Test patterns
- Front panel & control key lock out

Input Connectors
3 x RS232 connectors (DB9 male) to connect up to 3 iX range products

Dimensions: 5U, 19"
- D 220 mm x W 446 mm x H 120 mm
- D 8.7" x W 17.5" x H 4.7"

Weight: 4 kg / 8.8 lbs

Power Supply
Internal, universal, automatic, 100 - 250 VAC; 50/60 Hz (25W) (UL, CSA, CE, IEC 950)

Supplied with
- 1 x AC power cable
- 3 x Remote cables DB9 (M/F) (3m/10 ft)
- 1 x Update cable DB9 (F/F) (1.8m/6 ft)
- 1 x User manual

Warranty
3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

Reference

> **TRC8022:** TripliX™

For the control of

> **Di-VentiX** - DVX8022
> **EventiX** - EVX8022
> **CentriX** - CTX8022
> **NatiX** - NTX8022

RK8022-T™

RK8022-T

Model. RK8022-T

Technical Specifications

LCD Window and Control Buttons for
- Input format status
- Output format & sync. selection
- Switching effect transition
- Contrast and black level, RGB, color, hue, brightness, sharpness and gamma adjustments
- Test patterns
- Key lock out, etc.

Connectors
- DB9-M for RS232
- RJ45 for Ethernet
- 1 x Power Jack Coax

Dimensions
- D 220 mm x W 446 mm x H 120 mm
- D 8.7" x W 17.5" x H 4.7"

Weight: 1 kg / 2.2 lbs

Power Supply
External, universal, automatic, 100 - 240 VAC; 50/60 Hz (25W)
9V dc - 1A

Supplied with
- 1 x Desktop power Cable
- 1 x DB9 M/F 3m Cable
- 1 x DB9 F/F 1,8m Cable
- 1 x user manual

Warranty
3 year warranty on parts and labor, back to factory

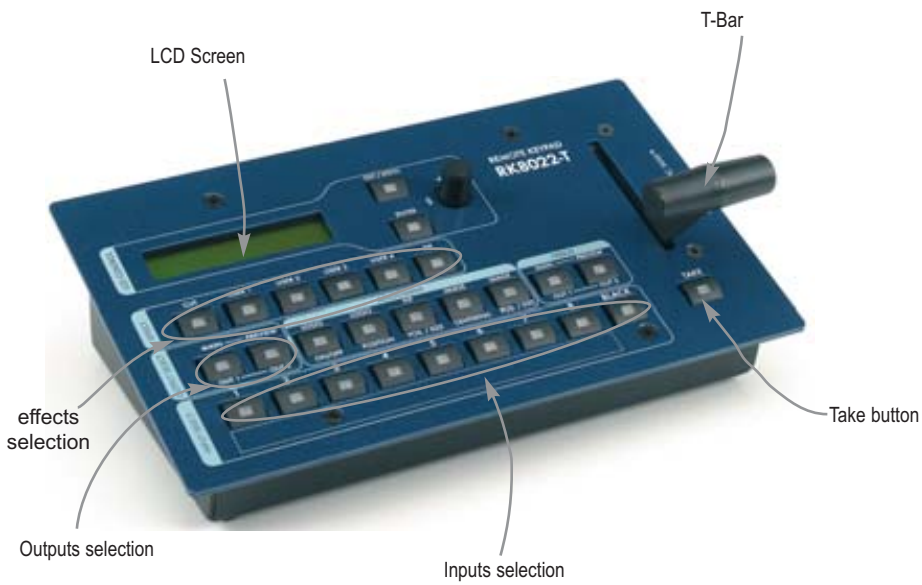
Specifications subject to change without prior notice

RK8022-T™ can control individually each Switcher of the *iX* range: **Di-VentiX**, **EventiX**, **CentriX** and **NatiX**.

Equipped with an LCD screen, a T-bar and numerous keys for direct access to most useful functions, **RK8022-T** ensures a perfect control of the Switcher connected to it.

RK8022-T is compact, easy to use and to connect by RS232 com port or by TCP/IP. **RK8022-T** can be updated by download and follows the evolution of the products it controls.

RK8022-T is aslo available without T-bar: **RK8022**.



References

> **RK8022-T:** Remote Control Console with T-Bar

> **RK8022:** Remote Control Console

For the control of

> **Di-VentiX** - DVX8022
> **EventiX** - EVX8022
> **CentriX** - CTX8022
> **NatiX** - NTX8022

RKD Consoles™

RKD500-T

Model. RKD500-T

RKD500-T™ allows to control each Switcher of the **Octo Vue** Range. It is also compatible with the **Octo2** and **Quattro** Switchers.

Equipped with an LCD screen, a T-Bar and numerous keys for a direct access to most useful functions, **RKD500-T** ensures a perfect control of the Switcher connected to it.

RKD500-T is compact, easy to use and to connect by RS232 com port or by optional TCP/IP. It can be updated by download and follows the evolution of the products it controls.

RKD500-T is also available without T-Bar: **RKD500**.

References

> **RKD500-T:** Remote console with T-Bar
> **RKD500:** Remote console

For the control of

> **Octo Vue FX** - OVX831
> **Octo Vue Fade** - OVF831
> **Octo Vue** - OVP831

and compatible with Octo FX2, Octo Fade2, Octo Plus2, Quattro FX, Quattro Vue, Quattro D and Quattro

Technical Specifications

LCD Window and Control Buttons for
- Input format status
- Output format & sync. selection
- Switching effect transition
- Contrast and black level, RGB, color, hue, brightness, sharpness and gamma adjustments
- Test patterns
- Front panel & control key lock out

Connectors
- DB9-M for RS232
- RJ45 for Ethernet (optional)
- 1 Power Jack Coax

Dimension
- P 8.7" x L 5.11" x H 4/2.6"
- P 220 mm x L 130 mm x H 120/67 mm

Weight: 1 kg / 2.2 lbs

Power Supply
External, universal, automatic, 100/240V 50/60Hz, 9V dc - 1A

Supplied with
- 1 x Desktop Power Supply
- 1 x DB9 M/F 3m / 10ft Cable
- 1 x DB9 F/F 1.8m / 6ft Cable
- 1 x User Manual

Warranty
3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

RKD100

Model. RKD100

RKD100™ is a **remote control keypad** for the Switchers of the **Octo²** and **Quattro** ranges. Especially designed for integration, it performs all Audio and Video switching operations.

RKD100 is very easy to connect by RS232 com port. It is powered by the Switcher it is connected to and does not require any external power.

RKD100 is also compatible with the Switchers of the **Octo Vue** Range for a use limited to the main switching operations.

Reference

> **RKD100:** Remote control keypad

For the control of

> **Octo FX2** - OFX803
> **Octo Fade2** - OFD803
> **Octo Plus2** - OCP803
> **Quattro Vue** - QVP421
> **Quattro FX** - QFX402
> **Quattro D** - QTD402
> **Quattro** - QTA401

and compatible with Octo Vue FX, Octo Vue Fade and Octo Vue

Technical Specifications

User Controls
- Video and Computer selection: 8 buttons with direct access to each input
- Black: Switches the output to Black
- Freeze: Freezes the output

Audio
- Mute: cut the audio on the output
- Breakaway or Follow mode
- Volume: adjust the level on the output

Dimensions:
- P 4.5" x L 4.6" x H 2.16"
- P 115 mm x L 117 mm x H 55 mm

UNIT:
- P 3.93" x L 3.74" x H 2.16"
- P 100 mm x L 95 mm x H 55 mm

FRONT PANEL: 2 gang Compatible
- L 4.6" x H 4.53"
- L 117 mm x H 115 mm

Connectors
- DB 9 male for RS232

Weight: 0.5 kg / 1.1 lbs

Supplied with
- 1 x DB 9 (M/F) (3m / 10ft) Cable
- 1 x Set of labels

Warranty
3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

Manager Stage™

Manager Stage

Model. MMSAW

- Application specific software to control unlimited number of *iX* Switchers for large image presentations
- Comprehensive graphical user interface with preview
- Fast learning curve
- Live and programmed shows

Manager Stage™ for **Analog Way** is based on the show control software **Manager Stage** by **Medialon**. A specific plug in for **Di-VentiX/EventiX** allows the control of an unlimited number of image processors from a single PC.

Its graphical programming interface represents your projection area and allows easy preview and programming of layout and transition effects. Layout and transition effects are stored in presets which can be recalled live during your presentation, or synchronized on a timeline. Presets can even be edited live during preview, just before being sent on screen.

All **Di-VentiX/EventiX** effects are supported by **Manager Stage**, such as PIP, wipe, fading, titling, mixing and seamless switching. Thanks to its graphical user interface, **Medialon Manager Stage** for **Analog Way** gives you a unique automation tool to program and run large screen presentations. Even small events benefit from amazing effects which can only be achieved with a powerfull software tool.

Programming: A preset is both a layout (ie. position of sources in window on your projection area) and an associated transition effect.

Just drag and drop windows, assign sources and transition effect, run for pre-monitoring and store as a preset.

Live Show: All recorded presets are available randomly at a click of a mouse to be recalled and previewed on the computer screen. After recall, a preset can be edited just before being sent or sent directly by moving the T-bar.

Pre-canned show: Presets can be recalled from a Timeline to be synchronized and sequenced accurately together. Even in this mode, live recall and edition of preset is still available.

Automatic start, loop, pause and many other features can be programmed in timelines. Several timelines can run simultaneously and saved for future use.

Updates: **Manager Stage** for **Analog Way** is a limited edition of **Medialon Manager Stage**, it controls the **iX**, **Octo** and **Graphic Switcher II series** from **Analog Way**. Control of other display devices (Matrix switchers, video-projectors, Video sources, etc...) can be added by using the **Medialon** enhancement kit available at www.medialon.com.

Minimum Requirements

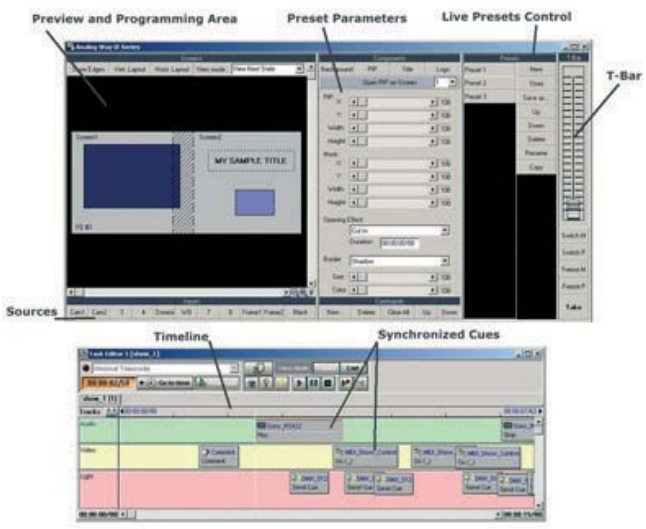
- Windows XP or 2000
- Ethernet port
- Hub or Switcher for the control of several Di-VentiX
- 1 CD Rom Drive

Reference

> **MMSAW:** Medialon Manager Stage for AW

For the control of

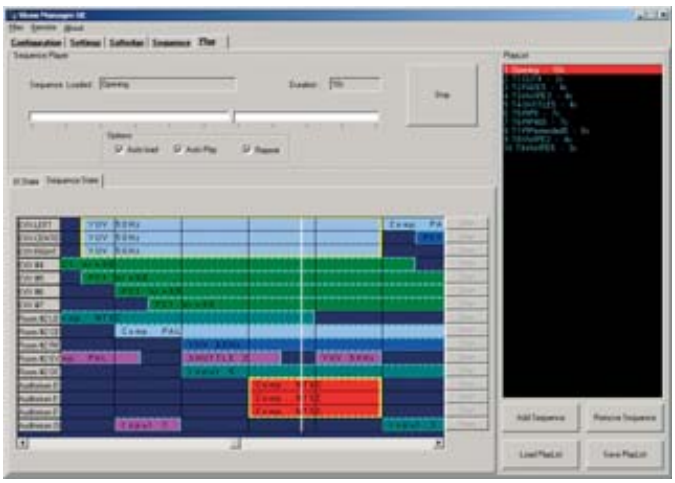
> **Di-VentiX** - DVX8022
> **EventiX** - EVX8022



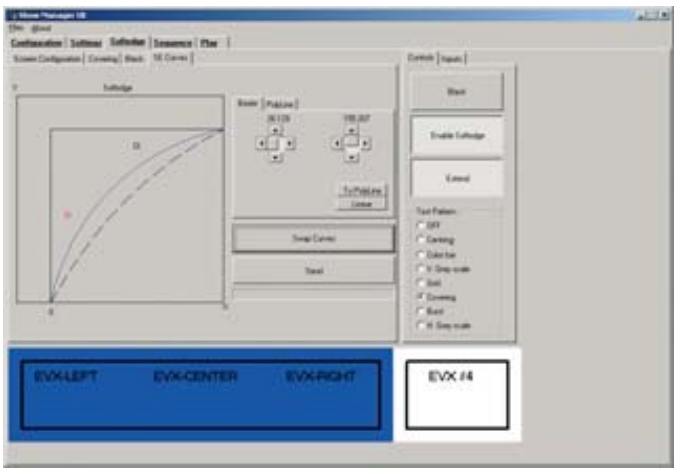
Show Manager OE™

Show Manager OE™ — **Model.** SMW-OE

- Application Specific Software to Manage Simultaneously up to 16 Display Devices with *iX* Switchers and a PC
- Compatible with the Di-VentiX, EventiX, CentriX, NatiX and the Octo Range



Visualization of the “Play List” sequences



Set up of the Soft Edge curves

Show Manager Open Edition™ by Analog Way is specifically designed for large events that require the control of up to 16 display devices. This software can simultaneously manage up to 16 EventiX™ from a single PC, program sequences visually and intuitively, and switch from one source to another with their associated transitions. This programming does not require any technical skills. Once the sequences are recorded, the video or computer images can be displayed as a time line on the large screen, using various effects such as PIP, wipes, fading, titling, mixing or seamless switching.

Fully automated, **Show Manager OE** is easy to use and offers amazing possibilities to make your events unforgettable.

AUTOMATION PROCEDURE

STEP 1

A sequence is a set of effects that can be recorded, automatically managed and displayed on the display device of your choice. Determine the number of effect patterns needed in the presentation, assign them to the proper display, and record the settings as “sequence” data.

STEP 2

All the sequences recorded can be included in the “play list” menu before execution (the order can be changed if necessary). The list of sequences can be saved for future events.

STEP 3

Sequences can be played in manual or automatic mode by clicking on the “play” button, and can be momentarily interrupted at any time. Depending on your application, you may want to select several “play options” offered by **Show Manager OE**:

- “Repeat Button” to display the same sequence in a loop,
- “Auto Load” to start the next sequence at the end of the previous one,
- “Auto Play” to play all the sequences included in the play list.

Minimum Requirements

- 1 Parallel port or USB
- 1 RS232 serial port per EventiX connected. Contact us for PC RS232 extension or Ethernet connection
- 1 CD-Rom drive
- Windows XP, 2000

References

SWM-OE: Show Manager Open Edition

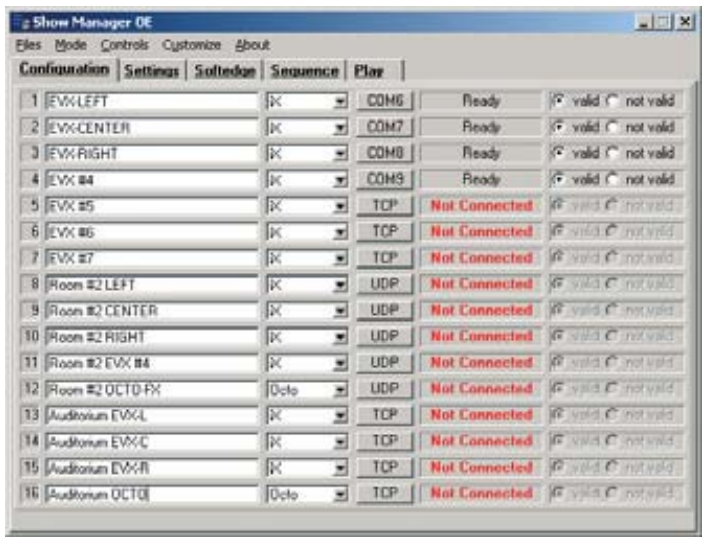
PACKAGES

SMCBx2: 2 x Cross Blender (CBD-UP) + 1 Show Manager Open Edition (SWM-OE)

SMCBx3: 3 x Cross Blender (CBD-UP) + 1 Show Manager Open Edition (SWM-OE)

For the control of

> **Di-VentiX** - DVX8022
> **EventiX** - EVX8022



Configuration of the Switchers connected

Product Comparison: Analog Way Scan Converters

		Broad Scan HD	Broad Scan SDI	Broad Scan	Digi Scan 1600	Scan 1600	P1024
	Max Input Resolution	1920x1200	1920x1200	1920x1200	1600x1200	1600x1200	1024x768
	DVI and RGB Input	✓	✓	✓	✓	✓	
	Output	TV & HDTV	TV	TV	TV	TV	TV
	Digital Output	✓	✓		✓		
	Anti Flicker Levels	8	8	8	8	8	3
	Genlock	D* or A*	D* or A*	A	A		
	Digital Audio	✓	✓				
	Broadcast SMPTE Specifications	✓	✓	✓			
	RS232 Control	✓	✓	✓	✓		
	Optional TCP/IP	✓	✓	✓	✓		
Output	SDI	2	2		1		
Output	Luma Key	✓	✓	✓			
Output	Frame Lock	✓	✓	✓			
	Zoom	1000%	1000%	1000%	500%	500%	
	Frame Memory	✓	✓				
	Logo	4	4				
	Animated Logo	1	1				

*: Digital or Analog Genlock depending on Model

Scan Converters

Broad Scan HD

New! p. 76

> Very High Resolution to Video and HDTV Scan Converter with Genlock and Embedded Audio with Delay
> For High Definition and Standard Television Broadcast
> DVI and RGB Computer Input up to 1920x1200
> SD/HD-SDI 4:2:2 & SD/HDTV Analog Outputs

Broad Scan SDI

New! p. 78

> Very High Resolution to Video Scan Converter with Genlock and Embedded Audio w/Delay
> For Broadcast Studio and TV Production
> DVI and RGB Computer Input up to 1920x1200
> NTSC/PAL SDI 4:2:2 & Analog Outputs

Broad Scan

New! p. 80

> Very High Resolution to Video Scan Converter with Genlock
> For Broadcast Studio and TV Production
> DVI and RGB Computer Input up to 1920x1200
> NTSC/PAL, Component, RGB and S.Video Outputs

Digi Scan 1600

New! p. 82

> Digital High Resolution Scan Converter with Genlock
> DVI & RGB Computer Input up to 1600x1200
> SDI, RGB/YUV, S.Video, NTSC/PAL Outputs
> Auto-scan up to 130 kHz
> For TV Production, Medical and Military Environment

Scan 1600

New! p. 84

> High Resolution Scan Converter
> DVI & RGB Computer Input up to 1600x1200
> Auto-scan up to 130 kHz
> Video Outputs: RGB/YUV, S.Video, NTSC/PAL
> For Display Network, Business Presentation, Video Conferencing, Video Recording, Video Projection

Power 1024

p. 86

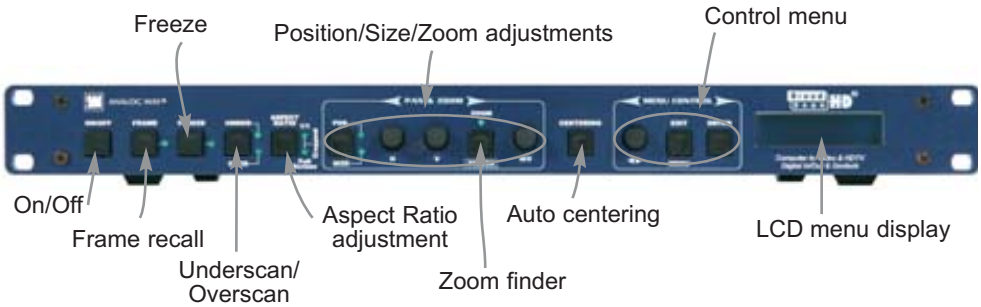
> Computer to Video Scan Converter
> For Display Network, Business Presentation, Video Conferencing and Recording
> Computer Input up to 1024 x 768
> Auto-scan up to 50 kHz
> Video Outputs: RGB/S, S.Video, NTSC/PAL

Broad Scan HD™

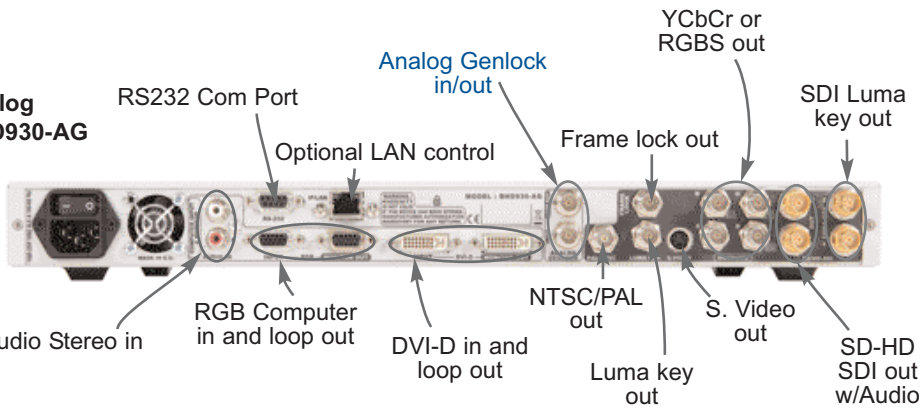
Broad Scan HD™ — New! —

Model. BHD930-AG
Model. BHD930-DG

- Very High Resolution to Video and HDTV Scan Converter with Genlock and Embedded Audio
- For High Definition and Standard Television Broadcast
- DVI and RGB Computer Input up to 1920x1200
- SD/HD-SDI 4:2:2 & SD/HDTV Analog Outputs



Analog
BHD930-AG



Features

- Workstations, PC, Mac compatible input
- Digital outputs: HD/SD-SDI 10 bits
- Analog outputs: HD/SD-YUV, NTSC/PAL, RGB, S-Video
- Embedded Stereo Audio w/Delay
- Genlock: HD/SD-SDI or Analog HD Black and Black Burst
- Multi-level anti-flicker
- Horizontal & vertical filters
- 16/9, 4/3, special sized and cropped output
- Pan & zoom resizing up to 1000%
- Zoom Finder
- Frame & logo memory
- RS232 Upgradable
- Remote control software
- Ethernet interface: Optional

Digital
BHD930-DG

Technical Specifications

Computer Input
- For PC, Mac and Workstation
- DVI-D and RGsB, RGBS, RGBHV with Automatic synchronization detection
- Resolution up to 1600x1200/60Hz & 1920x1200RB/60Hz
- Horizontal frequency from 31.5 to 130 KHz
- Vertical frequency up to 130 Hz
- Audio Stereo: Unbalanced 44kOhms - +18dB – Adjustable level

Outputs
- HD-SDI (x2): 4:2:2 - 10 bits – 1.5 Gbs - 75 Ohms or SDI (x2): 4:2:2 – 10 bits – 270 Mbs - 75 Ohms (fs=48Khz@20/24 bit)
- HD-YUV: HD-YCrCb - 0.7Vp/p + 3 level Sync. +/- 0.3V - 75 Ohms or YCrCb; RGsB, RGBS: 0.7Vp/p + Sync. 0.3V - 75 Ohms
- S.Video: Y/C - 0.7Vp/p + Sync. 0.3V - 75 ohms
- NTSC/PAL: Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- Luma key (x2): SDI/HDSDI – Same format as output - 75 Ohms
- Luma key: Analog SD/HD 0.7Vp/p - Same format as output - 75 Ohms
- Frame Lock: TTL Level – Output frame rate

DIGITAL GENLOCK (Model BHD930-DG)
- Input: HD/SD-SDI Black
- Output: Active loop through

ANALOG GENLOCK (Model BHD930-AG)
- Input: 3 level HD Black or Black Burst
- Output: Active loop through

User Controls and Connectors

FRONT PANEL
- Standby On/Off
- Frame recall
- Freeze
- Under/Over scan
- Aspect ratio: 1/1 – Cropped - Full Screen
- Zoom up to 1000%, linear pan & scan & Finder
- Position and size
- LCD screen and control buttons for:
  - Input type and status
  - 8 level anti-flicker
  - RGB & Black level adjustment, sharpness
  - Output format selection
  - Genlock phase adjustment

REAR PANEL
- **Input Connectors:**
  - DVI-I Female: (Digital computer in only)
  - HD15 Female (Analog computer in)
  - BNC (Genlock in)
  - RCA Audio Stereo
- **Output Connectors:**
  - DVI-I Female: Active loop through
  - HD15 Female: Active loop through
  - BNC (x2): HD/SD-SDI
  - BNC (x4): HD/SD-YUV & RGsB/RGBS
  - 4 pin Mini DIN: S. Video
  - BNC: NTSC / PAL
  - BNC: Genlock Active loop through
- BNC: Analog Luma key out
- BNC (x2): Digital Luma key out
- BNC: Frame lock out
- **Miscellaneous:** - DB9: RS232 for remote control
  - RJ45: Optional Ethernet connection
  - AC Main connector with On/Off switch

Power Supply
- Internal, universal, automatic, 100-250 V; 50/60 Hz; 40 W (UL, CSA, GS, CE)

Supplied with
- 1 x AC power cable
- 1 x Remote control software
- 1 x User manual

Dimensions: 1U, 19" compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.3 kg / 7.3 lbs

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Broad Scan HD™ by Analog Way

is a **Broadcast and Professional Computer to Video and High Definition TV Scan Converter**. Fitted with Digital DVI and Analog RGB input, it converts Workstation, PC or Mac graphic images up to 1600x1200@60Hz (1920x1200 RB) into Video or HDTV. Each computer input has its own monitor loop throughout for the connection of a control display. Output signal can be both analog and digital thus Broad Scan HD can provide a full Digital signal processing path from the input to the output.

Broad Scan HD features a powerful broadcast Genlock. Two versions of the **Broad Scan HD** offer either a Digital HD/SD-SDI Genlock (Model BHD930-DG) or an Analog HD Black or Black Burst Genlock (Model BHD930-AG). Genlock input is fitted with a loop through output allowing chaining devices. The user can adjust phase and subcarrier delay according to the specific installation requirements. HD output formats can also be genlocked with a SD TV Black Burst signal. All Genlock timings meet broadcast ITU/SMPTE standards.

Broad Scan HD supports many Output formats as listed below:

HDTV
- 720p @ 60, 59.94 & 50 Hz (SMPTE 296M),
- 1080i @ 60, 59.94 & 50 Hz (SMPTE 274M),
- 1035i @ 60 Hz & 59.94 Hz (SMPTE 260M),
- 1080sF @ 30, 29.97 & 25 Hz (RP2H/SMPTE 274M),
- 1080p @ 30, 29.97, 25, 24, 23.98 Hz (RP2H/SMPTE 274M).

SDTV
- NTSC – 525i @ 60 & 59.94 Hz – 15.735 kHz - ITU / RS170-A
- PAL – 625i @ 50 Hz – 15.625 kHz – CCIR

Broad Scan HD outputs different signals at the same time in one selected output format:
- **In HDTV**: Two HD-SDI and one HD-YUV 3 level sync signals are available simultaneously.
- **In SDTV NTSC/PAL**: Two SDI, one YUV or RGB, one S.Video and one Composite Video signals are available simultaneously.

Broad Scan HD also outputs a Luma Key signal in both Digital and Analog format. Luma key is at the same format as the output and is perfectly synchronized. In addition, a Frame Lock output allows synchronizing external device frame rate such as some graphic cards.

Broad Scan HD features real time conversion with high performance Image Processing. User adjustments offer an Anti-Flicker filter to significantly reduce flickering of the interlaced HD/SD-TV outputs, as well as 2D Sharpness, RGB level and Black level. It converts single wire computer type signal into black and white video image just by setting a menu. The state of the art high speed hardware FPGA allows aspect ratio control and a wide range linear or non linear zoom up to 1000%. In addition, a new "zoom finder" is provided to preview the actual part of the picture to be zoomed (H,V and H&V simultaneously). Broad Scan HD also offers a Frame Memory to store a full screen image that can be displayed at any time, as well as 1 animated or 4 still logos.

Broad Scan HD allows embedding analog audio Stereo signal into the HD/SD-SDI signal (fs=48 Khz@20/24 bits), with matched A/V delay.

Broad Scan HD is designed to be User Friendly thanks to many direct access functions such as Freeze, Frame, Under/Over scan, Aspect Ratio, Zoom position and size. It also provides easy to use and efficient menus on a clear bright blue LCD screen. LCD continuously displays Input and Output status during operations.

Broad Scan HD includes Computer input format memory: Up to 16 user presets are stored in the machine corresponding to 16 different input formats. The exact adjustments of the frequently used formats are instantly recalled, which makes the **Broad Scan HD** ideal and very useful for multi-computer applications or rental.

Cables for Broad Scan HD

> **BNC Cables from 2m/6ft to 20m/66ft:** Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **S.Video Cables from 2m/6ft to 20m/66ft:** Ref. 10009 10093 - 10094 - 10095
> **Remote Cables from 0.3m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **SDI-HD SDI Cables from 3m/10ft to 30m/100ft M/M:** Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 -10141
> **VGA Cables from 0.3m/1ft to 2m/6ft:** Ref. 10014 - 10015 - 10077
> **DVI Cables from 2m/6ft to 70m/230ft:** Details of references page 122

References

> BHD930-DG: Broad Scan HD with Digital Genlock
> BHD930-AG: Broad Scan HD with Analog Genlock

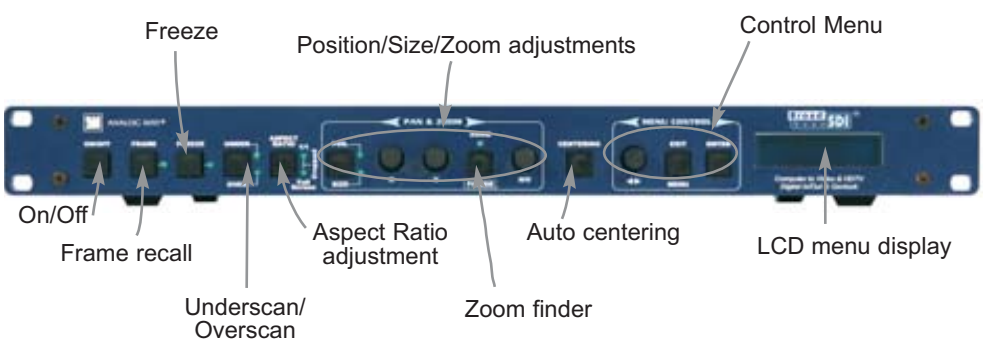
Option

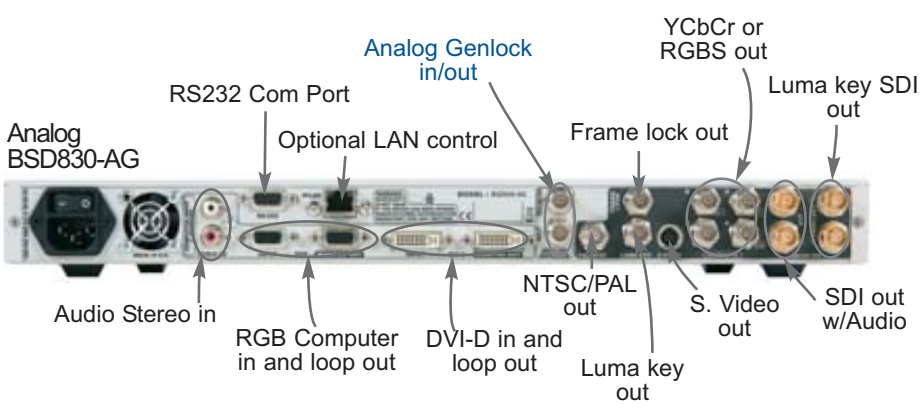
- OPT-LAN: IP / Ethernet Control

Broad Scan SDI™

Broad Scan SDI™ — New! — Model. BSD830-AG
Model.BSD830-DG

- Very High Resolution to Video Scan Converter with Genlock and Embedded Audio w/Delay
- For Broadcast Studio and TV Production
- DVI and RGB Computer Input up to 1920x1200
- NTSC/PAL SDI 4:2:2 & Analog Outputs





Features

- Workstations, PC, Mac compatible input
- Digital outputs: SDI 10 bits
- Analog outputs: YUV, NTSC/PAL, RGB, S-Video
- Embedded Stereo Audio
- Genlock: SDI or Analog Black Burst
- Multi-level anti-flicker
- Horizontal & vertical filters
- 16/9, 4/3, special size and cropped output
- Pan & zoom resizing up to 1000%
- Frame & logo memory
- RS232 Upgradable
- Remote control software
- Ethernet interface: Optional

Technical Specifications

Computer Input
- For PC, Mac and Workstation
- DVI-D and RGsB, RGBS, RGBHV with Automatic synchronization detection
- Resolution up to 1600x1200/60Hz & 1920x1200RB@60Hz
- Horizontal frequency from 31.5kHz to 130 kHz
- Vertical frequency up to 130 Hz
- Audio Stereo: Unbalanced 44kOhms -+18dB - Adjustable level

Outputs
- SDI (x2): 4:2:2 – 10 bits – 270 Mbs 75 Ohms (fs=48Khz@20/24 bit)
- YCrCb; RGsB, RGBS: 0.7Vp/p + Sync. 0.3V - 75 Ohms
- S.Video: Y/C - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- NTSC/PAL: Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- Luma key (x2): SDI – Same format as output - 75 Ohms
- Luma key: Analog 0.7Vp/p - Same format as output - 75 Ohms
- Frame Lock: TTL Level – Output frame rate

DIGITAL GENLOCK (Model BSD830-DG)
- Input: SDI Black
- Output: Active loop through

ANALOG GENLOCK (Model BSD830-AG)
- Input: Black Burst NTSC or PAL
- Output: Active loop through

User Controls and Connectors

FRONT PANEL
- Stand by On/Off
- Frame recall
- Freeze
- Under/Over scan
- Aspect ratio: 1/1 - Cropped - Full Screen
- Zoom up to 1000%, linear pan & scan & Finder
- Position and size
- LCD screen and control buttons for:
  - Input type and status
  - 8 level anti-flicker
  - RGB & Black level adjustment, sharpness
  - Output format selection
  - Genlock phase adjustment (H&fsc)

REAR PANEL
- **Input Connectors:**
  - DVI-I Female (Digital computer in only)
  - HD15 Female (Analog computer in)
  - BNC (Genlock in)
  - RCA Audio Stereo
- **Output Connectors:**
  - DVI-I Female: Active loop through
  - HD15 Female: Active loop through
  - BNC (x2): SDI
  - BNC (x4): YUV or RGsB/RGBS
  - Mini DIN 4 pin: S. Video
  - BNC: NTSC / PAL
  - BNC: Genlock Active loop through
  - BNC: Analog Luma key out
  - BNC (x2): Digital Luma key out
  - BNC: Frame lock out
- **Miscellaneous:**
  - DB9: RS232 for remote control
  - RJ45: Optional Ethernet connection
  - AC mains connector with On/Off switch

Power Supply

Internal, universal, automatic, 100-250 V; 50/60 Hz; 40 W (UL, CSA, GS, CE)

Supplied with
- 1 x AC power cable
- 1 x Remote control software
- 1 x User manual

Dimensions: 1U, 19" Compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.3 kg / 7.3 lbs

Warranty: 3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Broad Scan SDI™ by Analog Way

is a **Broadcast and Professional Computer to Video Scan Converter**. Fitted with Digital DVI and Analog RGB input, it converts Workstation, PC or Mac graphic images up to 1600x1200@60Hz (1920x1200 RB) into NTSC or PAL Video.

Each Computer input has its own monitor loop through output for the connection of a control display. Output signal can be both Analog and Digital, thus **Broad Scan SDI** can provide a full Digital signal processing path from the input to the output.

Broad Scan SDI features a powerful Broadcast Genlock. Two versions of the **Broad Scan SDI** offer either a Digital SDI Genlock (*Model BSD830-DG*) or an Analog Black Burst Genlock (*Model BSD830-AG*). Genlock input is fitted with a loop through output allowing to daisy chain devices. The user can adjust phase and subcarrier delay according to specific installation requirements. All Genlock timings meet broadcast ITU/SMPTE standards.

Broad Scan SDI output formats are:
- NTSC – 525i @ 60 & 59.94 Hz – 15.735 kHz - ITU / RS170-A,
- PAL – 625i @ 50 Hz – 15.625 kHz – CCIR.

Broad Scan SDI outputs different signals at the same time in one selected output format **NTSC or PAL**: Two 10 Bits SDI, one YUV or RGB, one S.Video and one Composite Video signals are available simultaneously.

Broad Scan SDI also outputs Luma Key signal in both Digital and Analog signals. The Luma key signal comes in the same format as the output and perfectly timed. In addition, a Frame Lock output allows synchronizing an external device frame rate such as a graphic card.

Broad Scan SDI features real time conversion with high performance Image Processing. User adjustments offer an Anti-Flicker filter to significantly reduce flickering of the interlaced TV outputs, as well as 2D Sharpness, RGB level and Black level. It converts single wire Computer type signal into black and white Video image just by setting a menu. The state of the art high speed hardware FPGA allows aspect ratio control and a wide linear or non linear zoom capability up to 1000%. In addition, a new highlighted "zoom finder" is provided to preview the actual part of the picture to be zoomed (H, V and H&V simultaneously). **Broad Scan SDI** also offers a Frame Memory to store a full screen image that can be displayed at any time as well as 1 animated or 4 still logos.

Broad Scan SDI allows embedding Analog Audio Stereo input signal into the SDI output signal (fs=48 Khz@20/24 bits), with matched A/V delay, adjustable level, balance and mute.

Broad Scan SDI is designed to be User Friendly thanks to many direct access functions such as Freeze, Frame, Under/Over scan, Aspect Ratio, Zoom position and size. It also has easy to use and efficient menus on a clear bright blue LCD screen. LCD continuously displays Input and Output status during operation.

Broad Scan SDI includes Computer input format memory: Up to 16 user presets are stored in the device corresponding to 16 different input formats. The exact adjustments of the frequently used formats are instantly recalled which makes the Broad Scan SDI ideal and very useful for multi-computer applications or rental.

Cables for Broad Scan SDI

> **BNC Cables from 2m/6ft to 20m/66ft:** Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **S.Video Cables from 2m/6ft to 20m/66ft:** Ref. 10009 10093 - 10094 - 10095
> **Remote Cables from 0.3m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **SDI-HD SDI Cables from 3m/10ft to 30m/100ft M/M:** Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 -10141
> **VGA Cables from 0.3m/1ft to 2m/6ft:** Ref. 10014 - 10015 - 10077
> **DVI Cables from 2m/6ft to 70m/230ft:** Details of references page 122

References

> **BSD830-DG:** Broad Scan SDI with Digital Genlock
> **BSD830-AG:** Broad Scan SDI with Analog Genlock

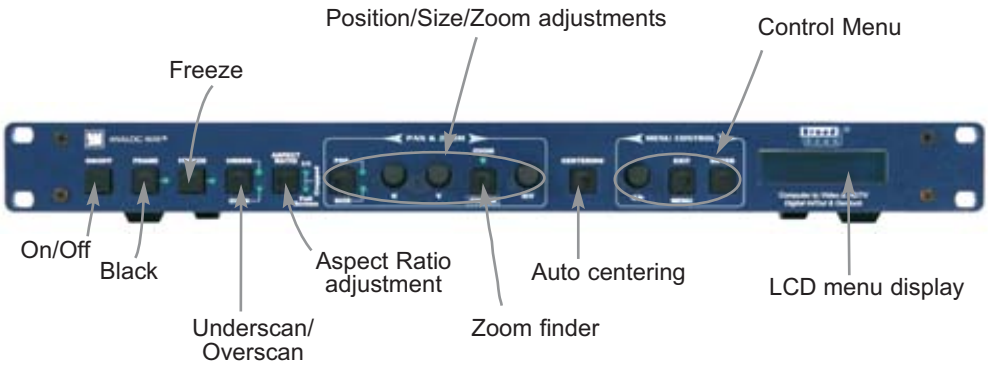
Option

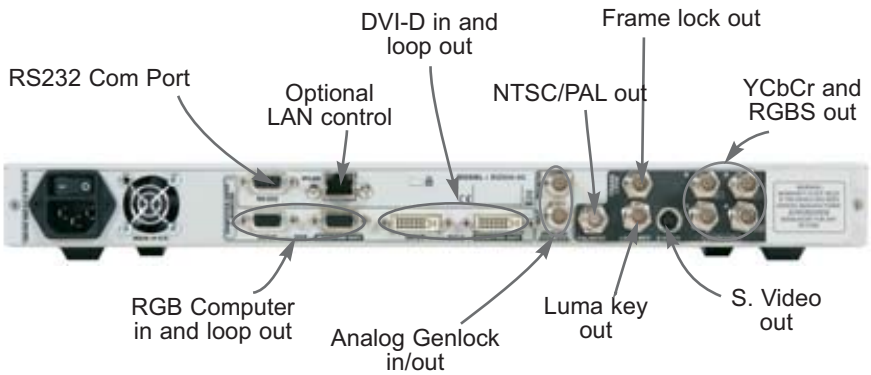
> **OPT-LAN:** IP / Ethernet Control

Broad Scan™

Broad Scan™ New! **Model.** BSC730

- Very High Resolution to Video Scan Converter with Genlock
- For Broadcast Studio and TV Production
- DVI and RGB Computer Input up to 1920x1200
- NTSC/PAL, Component, RGB and S.Video Outputs





Features

- Workstations, PC, Mac compatible input
- Analog outputs: YUV, NTSC/PAL, RGB, S-Video
- Genlock: Black Burst
- Multi-level anti-flicker
- Horizontal & vertical filters
- 16/9, 4/3, special size and cropped output
- Pan & zoom resizing up to 1000%
- RS232 Upgradable
- Remote control software
- Ethernet interface: Optional

Technical Specifications

Computer Input
- For PC, Mac and Workstation
- DVI-D and RGsB, RGBS, RGBHV with Automatic synchronization detection
- Resolution up to 1600x1200/60Hz & 1920x1200RB@60Hz
- Horizontal frequency from 31.5 to 130 KHz
- Vertical frequency up to 130 Hz

Outputs
- YCrCb; RGsB, RGBS: 0.7Vp/p + Sync. 0.3V - 75 Ohms
- S.Video: Y/C - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- NTSC/PAL: Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- Luma key: Analog 0.7Vp/p - Same format as output - 75 Ohms
- Frame Lock: TTL Level – Output frame rate

Analog Genlock
- Input: Black Burst NTSC or PAL
- Output: Active loop through

User Controls and Connectors

FRONT PANEL
- Stand by On/Off
- Black
- Freeze
- Under/Over scan
- Aspect ratio: 1/1 – Cropped - Full Screen
- Zoom up to 1000%, linear pan & scan & Finder
- Position and size
- LCD screen and control buttons for:
  - Input type and status
  - 8 level anti-flicker
  - RGB & Black level adjustment
  - Sharpness
  - Output format selection
  - Genlock phase adjustment (H&fsc)

REAR PANEL
- **Input Connectors:**
  - DVI-I Female: (Digital computer in only)
  - HD15 Female (Analog computer in)
  - BNC (Genlock in)
- **Output Connectors:**
  - DVI-I Female: Active loop through
  - HD15 Female: Active loop through
  - BNC (x4): YUV or RGsB/RGBS
  - 4 pin Mini DIN: S. Video
  - BNC: NTSC / PAL
  - BNC: Genlock Active loop through
  - BNC: Analog Luma key out
  - BNC: Frame lock out
- **Miscellaneous:**
  - DB9: RS232 for remote control
  - RJ45: Optional Ethernet connection
  - AC mains connector with On/Off switch

Power Supply
Internal, universal, automatic, 100-250 V; 50/60 Hz; 40 W (UL, CSA, GS, CE)

Supplied with
- 1 x AC power cable
- 1 x Remote control software
- 1 x User manual

Dimensions: 1U, 19" compatible
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.3 kg / 7.3 lbs

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Broad Scan™ by Analog Way is a Broadcast and Professional Computer to Video Scan Converter. Fitted with Digital DVI and Analog RGB input, it converts Workstation, PC or Mac graphic images up to 1600x1200@60Hz (1920x1200 RB) into NTSC or PAL video. Each computer input has its own monitor loop through output for the connection of a control display.

Broad Scan features a powerful broadcast Genlock through a NTSC or PAL Black Burst. Genlock input is fitted with a loop through output allowing to daisy chain devices. The user can adjust phase and subcarrier delay according to a specific installation requirements. All Genlock timings meet broadcast ITU/SMPTE standards.

Broad Scan output formats are:
- NTSC – 525i @ 60 & 59.94 Hz – 15.735 kHz - ITU / RS170-A
- PAL – 625i @ 50 Hz – 15.625 kHz – CCIR

Broad Scan outputs different signals at the same time in one selected output format **NTSC or PAL**: one YUV or RGB, one S.Video and one Composite Video signals are available simultaneously.

Broad Scan also outputs Luma Key signal. The Luma key signal comes in the same format as the output and perfectly timed. In addition, a Frame Lock output allows synchronizing an external device frame rate such as a graphic card.

Broad Scan features real time conversion with high performance Image Processing. User adjustments offer an Anti-Flicker filter to significantly reduce flickering of the interlaced TV outputs, as well as 2D Sharpness, RGB level and Black level. It converts single wire computer type signal into black and white video image just by setting a menu. The state of the art high speed hardware FPGA allows aspect ratio control and a wide linear or non linear zoom capability up to 1000%. In addition, a new highlighted "zoom finder" is provided to preview the actual part of the picture to be zoomed (H, V and H&V simultaneously).

Broad Scan is designed to be User Friendly thanks to many direct access functions such as Freeze, Black, Under/Over scan, Aspect Ratio, Zoom position and size. It also has easy to use and efficient menus on a clear bright blue LCD screen. LCD continuously displays Input and Output status during operation.

Broad Scan includes Computer input format memory: Up to 16 user presets are stored in the device corresponding to 16 different input formats. The exact adjustments of the frequently used formats are instantly recalled which makes the Broad Scan ideal and very useful for multi-computer applications or rental.

Cables for Broad Scan

> **BNC Cables from 2m/6ft to 20m/66ft:** Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **S.Video cables from 6 ft to 66 ft:** Ref. 10009 -10093 10094 -10095
> **Remote Cables from 0.3m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **VGA Cables from 0.3m/1ft to 2m/6ft:** Ref. 10014 - 10015 - 10077
> **DVI Cables from 2m/6ft to 70m/230ft:** Details of references page 122

Reference

> **BSC730:** Broad Scan

Option

> **OPT-LAN:** IP / Ethernet Control

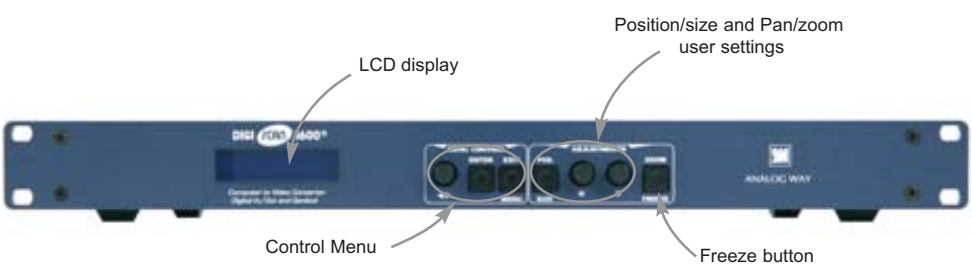
Digi Scan 1600™

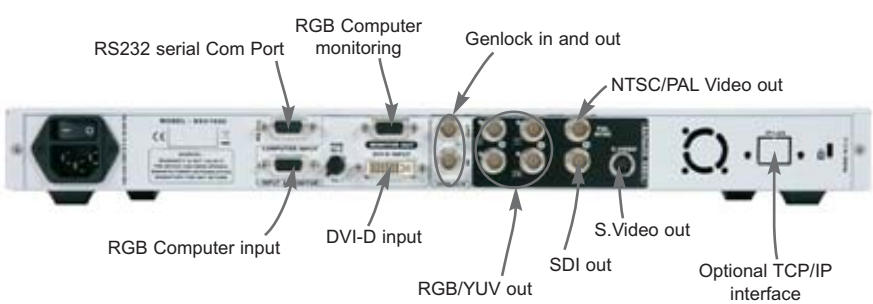
Digi Scan 1600™

New!

Model. DSV1600

- Digital High Resolution Scan Converter with Genlock
- DVI & RGB Computer Input up to 1600x1200
- SDI, RGB/YUV, S.Video, NTSC/PAL Outputs
- For TV Production, Medical and Military Environment
- Auto-scan up to 130 kHz





Features

- PC & Mac compatible
- DVI and RGB up to UXGA
- SDI Output together with NTSC/PAL, S.Video and RGB/YUV
- Genlock input with loop through
- 8 level anti-flicker
- Linear pan and zoom resizing
- Menu control with LCD
- Freeze button
- RS232 communication port
- Remote control software
- Ethernet interface: Optional
- 19” 1U Rack enclosure

Technical Specifications

Computer Input
- PC, Mac and Workstation
- RGsB, RGBS, RGBHV and DVI-D with automatic sync detection
- Resolution up to 1600x1200/60 Hz
- Horizontal frequency: 31.5 kHz to 130 kHz

Video Outputs
- SDI - 4.2.2 - 10 bits - 270Mb/s
- Composite Video PAL/NTSC (1Vp/p)
- S.Video (Y/C) (0.7 Vp/p + 0.3Vp/p),
- RGB/S, RGsB or Component (0.7 Vp/p + 0.3Vp/p)
- Formats: PAL 625L 15.625 kHz / 50 Hz (CCIR);
  NTSC 525L 15.735 kHz / 60 Hz (RS 170.A)
- Computer monitor loop through

Genlock
- Input: Black Burst
- Composite NTSC/PAL
- Output: Loop through

User Controls and Connectors

FRONT PANEL
- LCD screen & control buttons for Input, output, Image and miscellaneous user settings
- Frame Freeze: Push button + 1 LED
- Image position: horizontal and vertical position and size adjustments
- Zoom mode (continuous up to 500%) with horizontal and vertical position and size adjustments

REAR PANEL
- **Input Connectors:**
  - HD 15 pin female (Computer in)
  - DVI-I (Digital Computer in only)
  - BNC: Genlock Black Burst
- **Output Connectors:**
  - BNC (SDI - 4.2.2 - 10 bit - 270 Mb/s)
  - BNC (NTSC/PAL/Composite Video)
  - 4 pin mini DIN (S.Video)
  - 4 BNC (RGB/S, RGsB or Component)
  - HD15 pin female (Computer out)
  - BNC: Genlock loop through
- **Miscellaneous:**
  - Hi.Z/75 Ohms: Switch for Computer input
  - RS232 for remote control
  - RJ45: Optional Ethernet connection

Power Supply
Internal, universal, automatic 100-250 Vac; 50/60 Hz; 20 W (UL, CSA, CE)

Supplied with
- 1 x VGA M/M cable (1.8 m - 6 ft)
- 1 x Remote control software
- 1 x User manual

Dimensions: 19", 1U Compatible
- D 10.43" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3 kg / 6.6 lbs

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Digi Scan 1600™ by Analog Way

is a **Professional Scan Converter with Genlock and Digital SDI output** to convert PC, Mac or Workstation graphic images up to 1600x1200 at 60Hz into Video. Ready for the new generation of computer graphic cards, **Digi Scan 1600™** also offers a standard DVI-D input and SDI output for a fully digital signal processing. It is totally Auto-Scan and converts in real time, full screen image, with overscan / underscan and frame freeze functions.

Digi Scan 1600™ outputs at the same time SDI, RGB/S or YUV, S.Video and Composite in NTSC or PAL (4 pin Mini DIN, BNC). SDI signal is 10 bits, 4.2.2, meeting SMPTE 259 timing specifications.

Digi Scan 1600™ comes with High performance Genlock to overlay graphics onto incoming Video (with external switcher). All of the Line & Subcarrier phase parameters are adjustable, and meet ITU-R/SMPTE specifications. Genlock uses a Black Burst (or Composite) Video signal. It includes an active loop through to daisy chain other devices.

Digi Scan 1600™ includes Computer input format memory: User adjustments for up to 16 different input formats are stored in the device permanent memory. It makes this device ideal and very useful for rental or multi-computer applications.

Digi Scan 1600™ features linear Pan/Zoom up to 500% to display from 100% to 4% of any part of the total input image area. A large range Anti-Flicker (8 levels) enables to find the right settings to match your application. It also offers R, G, B and Black Level adjustments for a precise user color setting. In addition, a loop through out of the RGB input is available for monitoring. User friendly menus displayed on a blue illuminated LCD screen provide clear and simple user controls.

Digi Scan 1600™ can be fully controlled and updated via RS232 serial COM port or Optional Ethernet port. Control software is provided with the device and updates can be downloaded from **Analog Way** website.

Digi Scan 1600™ is very easy to use and provides professional high quality Video signal.

Cables for Digi Scan 1600

> **BNC Cables from 2m/6ft to 20m/66ft:** Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **S.Video Cables from 2m/6ft to 20m/66ft:** Ref. 10009 10093 - 10094 - 10095
> **Remote Cables from 0.3m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **SDI-HD SDI Cables from 3m/10ft to 30m/100ft M/M:** Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 -10141
> **VGA Cables from 0.3m/1ft to 2m/6ft:** Ref. 10014 - 10015 - 10077
> **DVI Cables from 2m/6ft to 70m/230ft:** Details of references page 122

Reference

> **DSV1600**: Digi Scan 1600

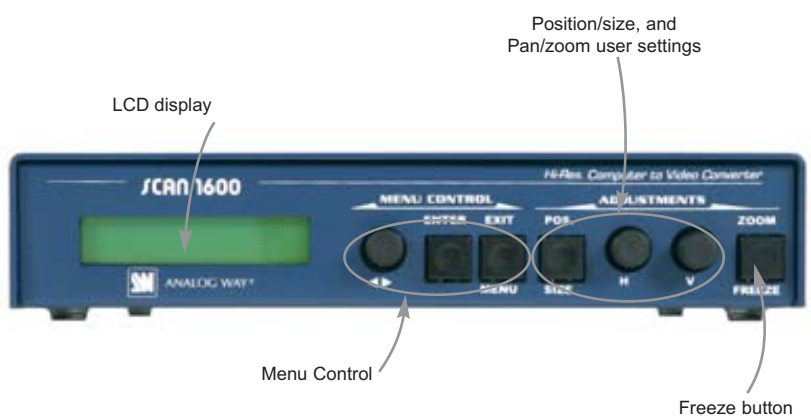
Option

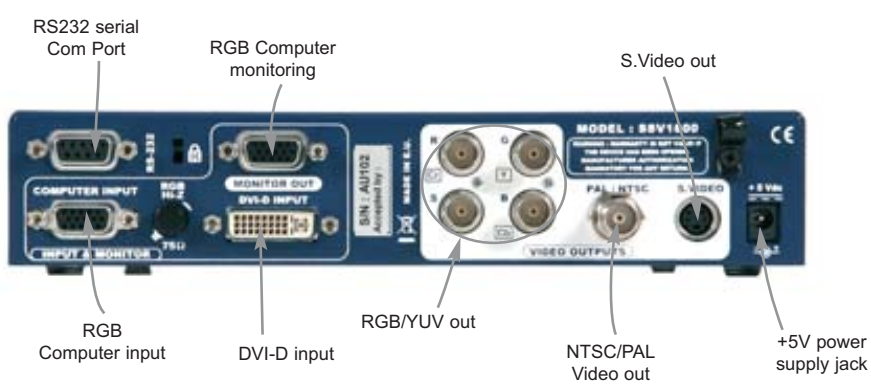
> **OPT-LAN:** IP/Ethernet control

Scan 1600™

Scan 1600™ New! **Model.** SSV1600

- High Resolution Scan Converter
- DVI & RGB Computer Input up to 1600x1200
- Auto-scan up to 130 kHz
- Video Outputs: RGB/YUV, S.Video, NTSC/PAL
- For Display Network, Business Presentation, Video Conferencing, Video Recording, Video Projection





Features

- PC & Mac compatible
- DVI and RGB up to UXGA
- 8 level anti-flicker
- Linear pan and zoom resizing
- Menu control with LCD
- Automatic Memory
- Freeze button
- RS232 communication port
- Remote control software
- 1/2 19" 1U rackable

Technical Specifications

Computer Input
- PC, Mac and Workstation
- RGsB, RGBS, RGBHV and DVI-D with automatic sync detection
- Resolution up to 1600x1200/60 Hz
- Horizontal frequency: 31.5 kHz to 130 kHz

Outputs
- Composite Video PAL/NTSC (1Vp/p)
- S.Video (Y/C) (0.7 Vp/p + 0.3Vp/p),
- RGB/S, RGsB or Component (0.7 Vp/p + 0.3Vp/p)
- Formats: PAL 625L 15.625 kHz / 50 Hz (CCIR);
  NTSC 525L 15.735 kHz / 60 Hz (RS 170.A)
- Computer monitor loop through

User Controls and Connectors

FRONT PANEL
- LCD screen & control buttons for Input, output, Image and miscellaneous user settings
- Frame Freeze: Push button + 1 LED
- Image position: horizontal and vertical position and size adjustments
- Zoom mode (continuous up to 500%) with horizontal and vertical position and size adjustments

REAR PANEL
- **Input Connectors:**
  - HD15 pin female (Computer analog in)
  - DVI-I (Digital Computer in only)
- **Output Connectors:**
  - BNC (NTSC/PAL/Composite Video)
  - 4 pin mini DIN (S.Video)
  - 4 BNC (RGB/S, RGsB or Component)
  - HD15 pin female (Computer loop out)
- **Miscellaneous:**
  - Hi.Z/75 Ohms: Switch for Computer input
  - RS232 for remote control
  - Coaxial Jack for PWS

Power Supply

External, universal, automatic, 100-250 Vac; 50/60 Hz;
5 Vdc - 20 W (UL, CSA, CE)

Supplied with
- 1 x VGA M/M cable (1.8 m - 6 ft)
- 1 x Power supply
- 1 x Remote control software
- 1 x User manual

Dimensions: 1/2 19" 1U Compatible
- D 10.43" x W 8.7" x H 1.69"
- D 265 mm x W 221 mm x H 43 mm

Weight: 1.2 kg / 2.6 lbs

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Scan 1600™ by Analog Way is a Scan Converter to convert PC, Mac or Workstation graphic images up to 1600x1200 at 60Hz into Video. Ready for the new generation of computer graphic cards, it also offers a standard DVI-D input for digital signal. It is totally Auto-Scan and converts in real time, full screen image, with overscan / underscan and frame freeze functions.

Scan 1600™ outputs simultaneously Composite, S.Video and RGB/S or YUV in NTSC or PAL (4 pin Mini DIN, BNC).

Scan 1600™ includes Computer input format memory: User Adjustments for up to 16 different input formats are stored in the device permanent memory. It makes this device ideal and very useful for rental or multi-computer applications.

Scan 1600™ features linear Pan/Zoom up to 500% to display from 100% to 4% of any part of the total input image area. A large range Anti-Flicker processing (8 levels) allows to find easily the right settings to match your application. It also offers R, G, B and Black Level adjustments for a precise user color setting. In addition, a loop through out of the RGB input is available for monitoring. An LCD screen enables an easy navigation through the menus.

Scan 1600™ can be fully controlled and updated via RS232 serial COM port. Control software is provided with the device and updates can be downloaded from Analog Way website.

Scan 1600™ is very easy to use and provides a high quality Video signal.

Cables for Scan 1600

> **BNC Cables from 2m/6ft to 20m/66ft:** Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **S.Video Cables from 2m/6ft to 20m/66ft:** Ref. 10009 10093 - 10094 - 10095
> **Remote Cables from 0.3m/1ft to 30m/100ft:** Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **VGA Cables from 0.3m/1ft to 2m/6ft:** Ref. 10014 - 10015 - 10077
> **DVI Cables from 2m/6ft to 70m/230ft:** Details of references page 122

Reference

> **SSV1600**: Scan 1600

Option

> **OPT-RMK2:** Optional rack-mounting kit (allows mounting of 1 or 2 Scan 1600 in a 1U 19" rack)

Power 1024™

Power 1024™

Model. P1024

- Computer to Video Scan Converter
- For Display Network, Business Presentation, Multimedia, Video-Conferencing
- Computer Input up to 1024 x 768
- Multi-scan up to 48 kHz or 72 Hz
- Video Outputs: Composite Video, S.Video

Features

- PC compatible
- Automatic recognition of VGA, S.VGA and XGA inputs
- Full screen picture
- Anti-flicker, real-time, freeze frame, overscan / underscan
- No software required

Technical Specifications

User Controls and Connectors

FRONT PANEL
- Power LED
- Freeze: Push button with Led
- STD/Ni : 3 level anti-flicker

BACK PANEL
- Horizontal position shift
- Vertical position shift
- STD / Overscan switch
- DC In: Power supply
- HD 15 pin male (Computer input)
- HD 15 pin female (Computer monitoring)
- S.Video out: Mini DIN 4 pin
- PAL or NTSC out: Cinch (RCA) connector

Power Supply
- 25 W external (wall)
- 115 V / 60 Hz US (UL) or
- 230 V / 50 Hz EUR (CE) or
- 230 V / 50 Hz UK available

Supplied with
- 1 x VGA M/F cable (1.8 m - 6 ft)
- 1 x S.VIDEO cable (1.8 m - 6 ft)
- 1 x RCA / RCA cable
- 1 x SCART / RCA + 3.5 stereo jack cable (2.8 m - 9 ft) for PAL version only

Dimensions:
- D 5.86" x W 8.07" x H 1.92"
- D 149 mm x W 205 mm x H 49 mm

Weight: 0.9 kg / 2 lbs

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Power 1024™ by Analog Way is a Computer to Video Scan Converter, which accepts incoming inputs up to 1024x768 from any PC and converts them into Video, at low cost.

POWER 1024 is a fully stand alone external box with a dedicated, highly integrated Analog Way proprietary ASIC component. This dramatically reduces the associated «glue logic».The scan conversion's overall hardware ensures maximum security and future-compatibility (Dos, Windows, Unix).

In addition, the PC to TV conversion will never cause interference on your data monitor.

Cables for Power 1024

> **S.Vidéo Cables** from 1,8m / 6ft to 20m / 66ft: Ref. 10009 - 10093 - 10094 - 10095

References

> **P1024-NTSC**: Power 1024, NTSC version
> **P1024-PAL**: Power 1024, PAL version

Product Comparison: Analog Way Switcher Scalers

		V-SCALE PLUS	V-SCALE	V-SCALE C
Inputs				
Signal Type	Number of Video Inputs	4	2	1
	Number of Computer Inputs	1	1	1
	Composite (Auto - PAL - NTSC - Secam)	2	2*	1
	S. Video (Y-C)	1	1	1
	Component (YUV)	1**		1
	RGsB (SOG) - 15 kHz	1**		1
	RGBS - 15 kHz	1**		1
	Computer up to 1600 x 1200	1	1	1
Outputs				
Type	DVI	1		
	RGB HV	2	1	1
Format	852 x 480 (WVGA - 16/9)	✓	✓	✓
	800 x 600 (SVGA)	✓	✓	✓
	1024 x 768 (XGA)	✓	✓	✓
	1280 x 720 (HDTV 720p - 16/9)	✓	✓	✓
	1280 x 1024 (SXGA)	✓	✓	✓
	1365 x 768/1024 (D-ILA - 4/3 & 16/9)	✓	✓	✓
	1400 x 1050 (SXGA +)	✓	✓	✓
	1600 x 1200	✓	✓	✓
Rate	Time Base Correction	✓	✓	✓
	Frame Rate Conversion	✓	✓	✓
	Follow Mode	✓	✓	✓
Image Control				
	Horizontal Positionning	✓	✓	✓
	Horizontal & Vertical Sizing	✓	✓	✓
	Memory Presets	✓	✓	✓
	Input Aspect Ratio (4/3 - 16/9 - WS Anamorphic)	✓	✓	✓
	Output Aspect Ratio (Standard - Full Screen - Crop)	✓	✓	✓
	Freeze	✓	✓	✓
Image Processing				
	Color - Contrast - Brigthness	✓	✓	✓
	Hue (NTSC)	✓	✓	✓
	Sharpness	✓	✓	✓
Other Features				
	Frame Store / Alert	✓	✓	✓
	Black Delay (Black Short or Long)	✓	✓	✓
	Audio Stereo	✓	✓	✓
	External Room Control (+12Vdc Trigger)	✓	✓	✓
	Front Panel Display for Menu Controls	✓	✓	✓
	Remote Control (RS232)	✓	✓	✓
	LAN Control (TCP-IP - UDP)	option		
	Rack Mountable	✓	option	option

1:** One configurable input, either in Component (YUV) or RGsB (SOG) or RGBS
2*: Second Composite instead of S. Video input

V-Scale Plus

p. 90

> High Resolution Video Scaler and Computer Switcher with Audio Stereo
> For very high quality presentations, Home Theaters, video walls, etc...
> DVI output for LCD, DLP & plasmas or video-projectors
> All in one: Scaler / Frame Rate Converter

V-Scale C

p. 92

> Half 19" rack compact Video Scaler, offering multiple output resolutions up to 1600x1200
> Features 1 universal Video input and 1 Computer input
> For High Resolution DLP, LCD, plasmas and video-projectors
> Video to Hi-Res image conversion with Audio and Frame Rate Converter
> Automatic switch in case of loss of sync

V-Scale

p. 94

> Half 19" rack compact Video Scaler, offering multiple output resolutions up to 1600x1200
> Features 2 Video inputs and 1 Computer input
> For High Resolution DLP, LCD, plasmas and video-projectors
> Video to Hi-Res image conversion with Audio and Frame Rate Converter
> Versatile and customizable product

Scaler on Demand

With 18 years of experience in design & manufacturing of High End Scalers, Analog Way can adapt or customize existing off-the-shelf Scalers to fit your exact needs. Customization can be executed on:

>> Features

1- **Mix & Match the number & type of inputs**:
Computer, S.Video, YUV/RGBs, SDI, Composite, etc.
2- **Mix & Match the number & type of input connectors**:
HD 15, Mini DIN, RCA, BNC, etc..
3- **Choose the output connectors**: HD 15 computer and/or DVI
4- **With or without Audio**

>> Packaging

1- Specific front panel, with or without LCD, number of buttons, etc...
2- Available with or without enclosure (PCB only)
3- Customized enclosure: Color, branding, etc..

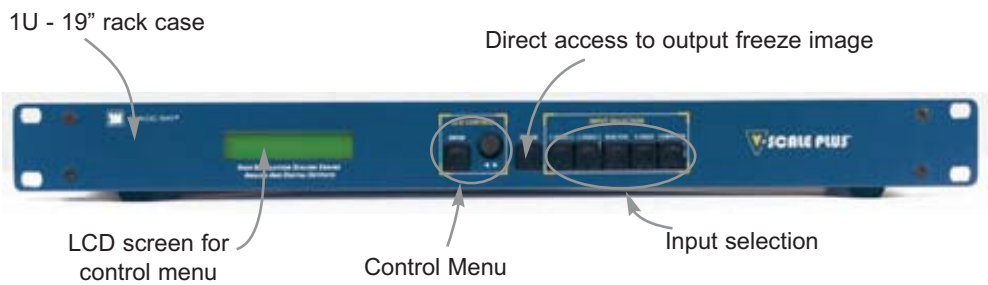
* Check with your local AW representative for minimum order quantity

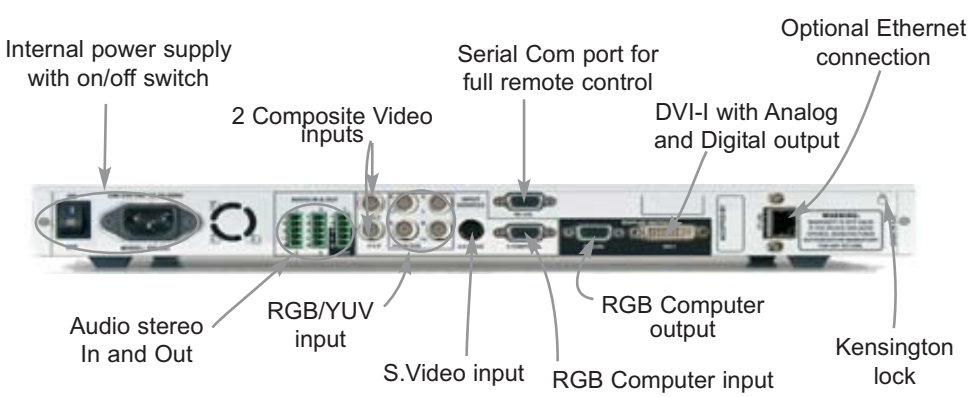
V-Scale Plus™

V-Scale Plus™

Model. VSL241

- Video to High Resolution A/V Scaler
- For Very High Quality Presentations, Home Theater, Video Walls, etc...
- DVI Output for LCD, DLP and Plasmas
- Frame Memory for Alert Message





Features

- Inputs: Component, Composite, S.Video, RGB, Computer
- DVI and RGB outputs up to SXGA+, UXGA
- Auto switch, Computer or Video input
- Aspect Ratio preserved
- Frame Rate Converter and Follower & ARC
- Auto 3:2/2:2 Pull Down
- Audio stereo Switcher
- RS232 Com Port
- Remote control software
- Freeze button
- Frame alert memory
- Optional TCP/IP control
- 19” rack case

Technical Specifications

Video Inputs
- **2 x Composite Video**
  SCØ = 3.58 MHz / 4.43 MHz
  NTSC / PAL / SECAM
- **1 x S.Video (Y/C)**
  PAL = 15.625 kHz / 50 Hz
  NTSC = 15.735 kHz / 60 Hz
- **1 x Component or RGB/S or RGsB**
  625L/ 525L, 50/60 Hz
  RGB /YUV (0.7 Vp/p)
  Sync (TTL or 0.3V Analog)
  RGsB (SOG: 0.3V Analog)
- **Audio Stereo Input**

Computer Input (Active Loopthrough)
- 1 x Computer (PC, Mac, Wkst) or external source (RGBHV, RGB/S)
- Resolution from 640 x 480 up to 1600 x 1200

Display Output
- **For Video Input:**
  - 2 x RGBHV, RGBS or RGsB selectable (buffered H & V separate Sync. or Composite sync.)
  - RGB = 0.7 Vp/p (75 Ohms load)
  - 1 x DVI-I: TMDS RGB Computer
  - Selectable output resolution:
    4/3: VGA: 640x480
    SVGA: 800x600
    XGA: 1024x768
    SXGA: 1280x1024
    SXGA+: 1400x1050
    UXGA: 1600x1200
    16/9: WVGA: 852x480
    720p: 1280x720
    1280x768
    WXGA: 1366x768 (D-ILA)
- **For Computer input:** from VGA to UXGA (24 kHz to 85 kHz), RGB HV/S Identical to the input (buffered loopthrough)

User Controls and Connectors

FRONT PANEL
- Input Selection from Input 1 to 5
- Freeze: Freeze button
- LCD Window & control buttons for:
  - Sharpness, brightness, contrast, color, hue,
  - Overscan/underscan
  - Aspect Ratio (Source & Screen)
  - Output format & Sync.
  - Horizontal and vertical position and size adjustments
  - Front panel control locking

REAR PANEL
- **Input Connectors:**
  - Composite 1: BNC connector
  - Composite 2: BNC connector
  - S.Video: Y/C Mini DIN connector
  - RGB/S & Component: 3/4 BNC connectors
  - Computer: HD15F connector
- **Output Connectors:**
  - RGB on HD15 and DVI-I
  - DVI Output: on DVI-I connector
  - Audio: MCO 5 pin connector
- **Other:**
  - RS-232: Remote control on DB9F connector
  - Audio: MCO 5 pin connector
- **ON/OFF: power switch**

Power Supply
- Internal, Universal, and Automatic 100 - 250 VAC; 50 / 60Hz (20W) (UL, CSA, CE)

Supplied with
- 1 x HD 15 M/M cable
- 1 x S. Video (Y/C) cable
- 1 x DVI M/M cable
- 1 x AC power cable
- 3 x MCO connectors
- 1 x Remote control software (CD)
- 1 x User manual

Dimensions: 19", 1 unit compatible
- D 10.43" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3 kg / 6.6 lbs

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Vscale Plus™ by Analog Way combines the functions of a High Resolution Video Scaler with an Audio Video Switcher with Audio Stereo. It is a state of the art Scaler / Line Multiplier / Quadrupler / Doubler which significantly increases Video image resolution and brightness. A Computer input is also provided for direct display of your presentations or Internet applications.

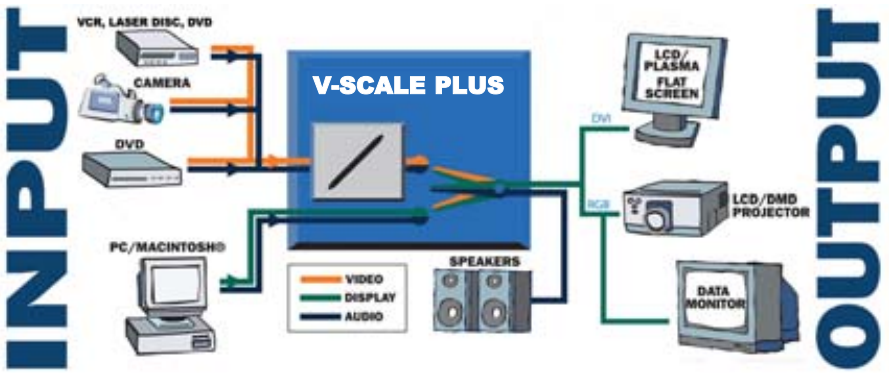
V-SCALE PLUS is fitted with a BNC, RGB and YUV component input and a DVI output providing perfect connection with an LCD screen, a video projector or a plasma. V-SCALE PLUS offers a double Analog output on both HD15 and DVI-I connectors. Additionally, the V-SCALE PLUS can drive up to 3 displays simultaneously.

V-SCALE PLUS features a non-volatile frame memory that can be used as a "welcome " or an "alert" message. This frame can be acquired from any Video input or it can be downloaded from a computer via RS232 or optional IP connection.

The very high quality decoder of the V-SCALE PLUS includes an advanced comb filter, an emphasized "natural" color processing, a highly robust sync. detection and a new enhanced 3D (pixel by pixel basis) auto-adaptive de-interlacing scheme (for motion artifacts). With automatic correction of the "film to video" transfer (3/2 & 2/2 pull down), it provides a "cinema like" image.

Image parameters such as brightness, contrast, color, aspect ratio and sharpness can be easily adjusted by the user. These parameters are stored for each input. A preset command enables to go back to factory settings. V-SCALE PLUS also features an automatic or manual stand-by mode, activated on the front panel or with the RS232 control.

Black and white composite is also accepted (for industrial, security, camera applications, etc...) on V-SCALE PLUS. The input source aspect ratio 4/3, 16/9, widescreen can be selected as well as the size of the screen (4/3 - 16/9). The frame conversion & time base correction provides high end A/V Pro & Home Theater solutions.



Cables for V-Scale Plus

> **S.Video Cables from 1.8m / 6ft to 20m / 66 ft:** Ref. 10009 - 10093 - 10094 - 10095
> **S.Video to BNC Cables of 1.8m / 6ft and 5m / 16ft:** Ref. 10102 - 10103
> **RCA Coaxial Cable of 1.2m / 4ft:** Ref. 10010
> **RCA/BNC Adaptor Cable:** Ref. 10011
> **VGA Cables of 0.4m / 1ft and 1.8m / 6ft (M/F and M/M):** Ref. 10014 - 10015 - 10077
> **VGA Multicoax Extension Cables from 3m / 10ft to 30m / 100ft (M/F and M/M):** Ref. 10016 - 10017 - 10018 - 10019 - 10073 - 10074 - 10075 - 10021 - 10022 - 10076 - 10083 - 10084 - 10085
> **VGA/BNC Adaptor Cables of 1.8m / 6ft and 3m / 10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
> **DVI cables from 1.8m / 6ft to 70m / 230ft:** Details of references page 122

Reference

> **VSL 241:** V-SCALE PLUS™

Option

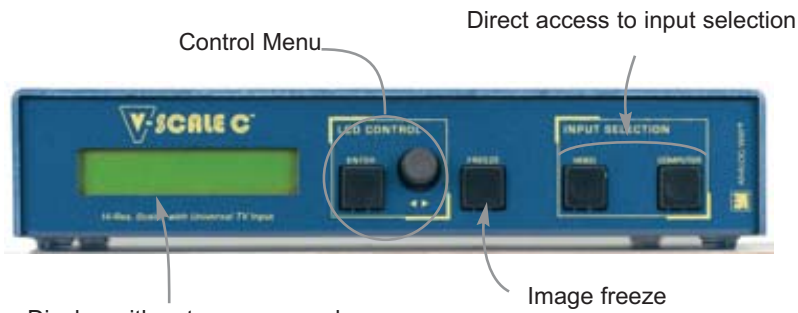
- OPT-LAN: IP/Ethernet Control

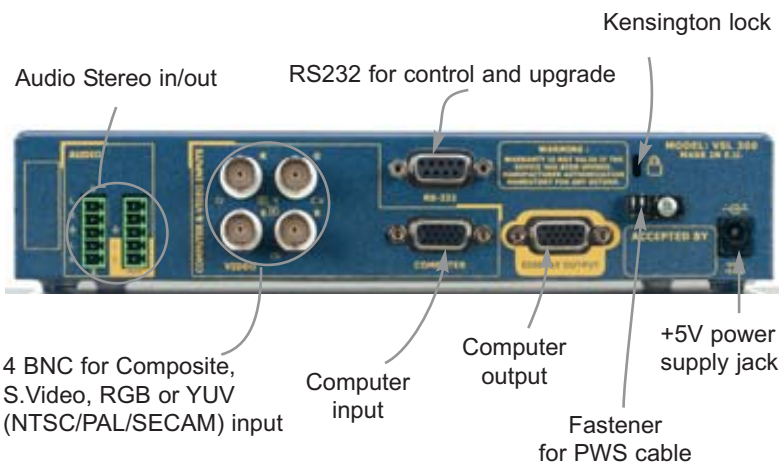
V-Scale C™

V-Scale C™

Model. VSL300

- Video to High Resolution A/V Scaler
- For High Resolution DLP, LCD, Plasmas and Video Projectors
- Automatic Switch in Case of Loss of Sync
- Frame Memory for Alert Message





Features

- Auto switch, Computer or Video input
- Analog Computer output up to UXGA
- Aspect ratio preserved
- Frame rate converter or follower & ARC
- Auto 3:2/2:2 pull down
- Audio stereo Switcher
- RS232 com port
- Remote control software
- Full LCD control with intuitive menu
- Freeze and frame alert memory
- 1/2 19” rack case

Technical Specifications

Inputs
• **1/ Video:**
- PAL/SECAM: 15.625 kHz - 50 Hz
- NTSC: 15.735 kHz - 60 Hz
- Composite, S.Video, RGBS, RGsB or YUV
2/ Computer:
- RGBHV, RGBS up to 110 kHz
> Audio/Stereo for 1 and 2

Outputs
• **For Video input:**
- Computer RGBHV, RGBS, RGsB
- Format: 800x600, 852x480,1024x768, 1280x720, 1280x1024, 1366x768, 1400x1050, 1600x1200,
- Rate: 60/50Hz or follow on current input
• **For Computer input:** same as input, buffered loopthrough,
• **Audio stereo output**

User Controls and Connectors
FRONT PANEL
• Input selection buttons
• Image freeze
• LCD screen with control and set up menus
• H&V, position, size, contrast, brightness, color, hue, sharpness
REAR PANEL
• 4 x BNC for Video input
• HD 15 = Computer input
• HD 15 = output
• DB9 = RS232 and contact closure for remote input selection
• Coaxial jack for power supply
• MCO connector for audio

Power Supply
External, universal, automatic 100-250 Vac - 5 Vdc - 20W

Supplied with
• 1 x Power supply, wall mount
• 2 x MCO connectors (5 pins)
• 1 x Remote control software
• 1 x User manual

Dimensions
• D 10.43" x W 8.70" x H 1.69"
• D 265 mm x W 221mm x H 43 mm

Weight: 1.2 kg / 2.6 lbs

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

V-Scale C™ by Analog Way is a half 19" rack compact Video Scaler, offering multiple output resolutions up to 1600x1200. V-SCALE C significantly improves the quality of any Video signal, providing enhanced brightness and sharpness.

V-SCALE C allows Video sources (PAL, SECAM, NTSC) to be displayed on high resolution LCD, plasma or video-projectors with Computer input. Its Video input accepts all types of signals: Composite, S.Video, RGBS, RGsB or YUV.

The powerful 3D motion auto-adaptive pixel per pixel basis scaling algorithms by Analog Way provides a perfect high resolution, bright and colorful image. It also eliminates flickering and movement artifacts thanks to its powerful auto 3:2 and 2:2 pull down film detection. In addition, it performs aspect ratio and frame rate conversion.

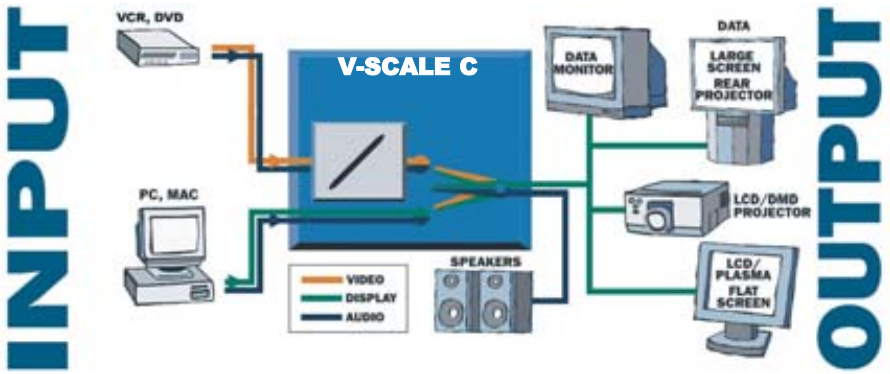
V-SCALE C provides user friendly menus on a LCD display. The user can easily adjust output format and image parameters through clearly designed and easy to use menus. V-SCALE C enables you to switch automatically to a user-defined input (Video or Computer) when the current input signal is lost.

V-SCALE C offers convenient features such as a full frame memory to be automatically displayed in case of loss of input sync.

V-SCALE C offers as well an automatic or manual stand-by mode on the front panel or through the RS232 connection.

V-SCALE C provides audio/stereo switching following the Video input.

V-SCALE C is the perfect device for conference room installations, where both Video and Computer must be displayed on a high resolution large screens.



Cables for V-Scale C

> **S.Video Cables from 1.8m / 6ft to 20m / 66 ft:** Ref. 10009 - 10093 - 10094 - 10095
> **S.Video to BNC Cables of 1.8m / 6ft and 5m / 16ft:** Ref. 10102 - 10103
> **RCA Coaxial Cable of 1.2m / 4ft:** Ref. 10010
> **RCA/BNC Adaptor Cable:** Ref. 10011
> **VGA Cables of 0.4m / 1ft and 1.8m / 6ft (M/F and M/M):** Ref. 10014 - 10015 - 10077
> **VGA Multicoax Extension Cables from 3m / 10ft to 30m / 100ft (M/F and M/M):** Ref. 10016 - 10017 - 10018 - 10019 - 10073 - 10074 - 10075 - 10021 - 10022 - 10076 - 10083 - 10084 - 10085
> **VGA/BNC Adaptor Cables of 1.8m / 6ft and 3m / 10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
> **DVI cables from 1.8m / 6ft to 70m / 230ft:** Details of references page 122

Reference

> **VSL300:** V-SCALE C™

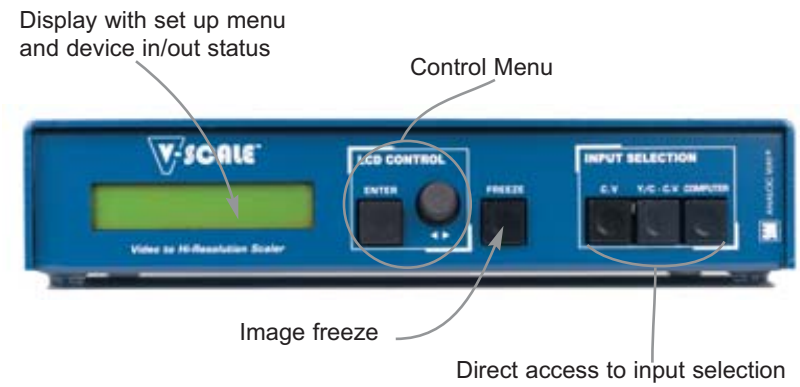
Option

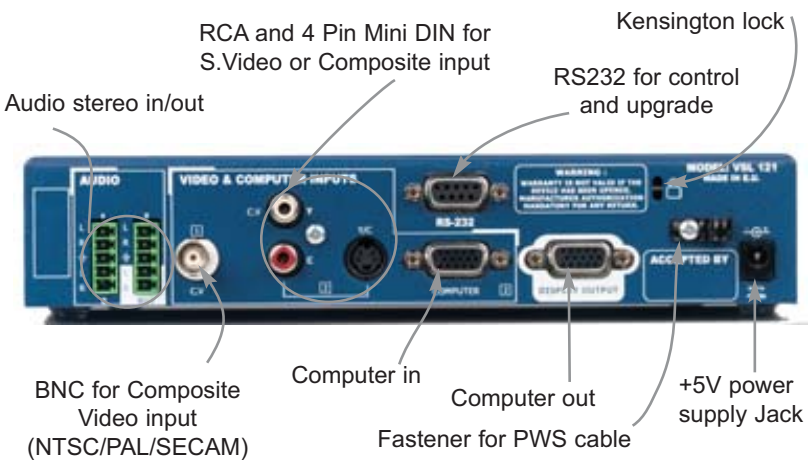
>**OPT-RMK2:** Optional rack mounting kit (allows mounting 2 V-SCALE C in 1U 19" rack)

V-Scale™

V-Scale™ **Model.** VSL121

- Video to High Resolution A/V Scaler
- For High Resolution DLP, LCD, Plasmas and Video Projectors
- Versatile and Customizable Product
- Frame Memory for Alert Message





Features

- Auto switch, Computer or Video input
- Computer Analog input up to UXGA
- Aspect ratio preserved
- Frame rate converter or follower & ARC
- Auto 3:2/2:2 pull down
- Audio stereo Switcher
- RS232 com port
- Remote control software
- Freeze button
- Frame alert memory
- 1/2 19” rack case

Technical Specifications

Inputs

- **1/ Composite:**
  - PAL/SECAM: 15.625 kHz - 50 Hz
  - NTSC: 15.735 kHz - 60 Hz
- **2/ Composite/S.Video:**
  - PAL/SECAM: 15.625 kHz - 50 Hz
  - NTSC: 15.735 kHz - 60 Hz
- 3/ Computer: RGB HV, RGBS, RGsB up to 110 kHz

> Audio Stereo for 1, 2 and 3

Outputs

- **For input 1 and 2**:
  - Computer RGBHV, RGBS, RGsB
  - Format: 640x480, 800x600, 852x480, 1024x768, 1280x720, 1280x768, 1280x1024, 1366x768 1400x1050, 1600x1200,
  - Rate: 60/50Hz or follow on current input
- **For input 3**: same as input, buffered loopthrough
- **Audio stereo output**

User Controls and Connectors

FRONT PANEL

- Input selection button
- Freeze
- LCD with control and set up menus
- H&V, position, size, contrast, hue, sharpness

REAR PANEL

- BNC = input 1
- 2 x RCA or 4 pin mini DIN = input 2
- HD 15 = Input 3
- HD 15 = Output
- DB9 = RS232 and contact closure for remote input selection
- Coaxial jack for power supply
- MCO connector for Audio

Power Supply

External, universal, automatic 100-250 Vac - 5 Vdc - 20W

Supplied with

- 1 x Power supply, wall mount
- 2 x MCO connectors (5 pins)
- 1 x Remote control software
- 1 x User manual

Dimensions

- D10.43" x W8.70" x H1.69"
- D265 mm x W221mm x H43 mm

Weight: 1.2 kg / 2.6 lbs

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

V-Scale™ by Analog Way is a half 19" rack compact Video Scaler, offering multiple output resolutions up to 1600x1200. V-SCALE significantly improves the quality of any Video signal, providing enhanced brightness and sharpness.

V-SCALE allows Video sources (PAL, SECAM, NTSC, S.Video) to be displayed on high resolution TFT, plasma or video projectors using the Computer input.

The powerful 3D motion auto-adaptive pixel per pixel basis Scaling Algorithms by Analog Way provide a perfect high resolution, bright and colorful image. V-SCALE also eliminates flickering and movement artifacts thanks to its powerful auto 3:2 and 2:2 pull down film detection. In addition, it performs aspect ratio and frame rate conversion.

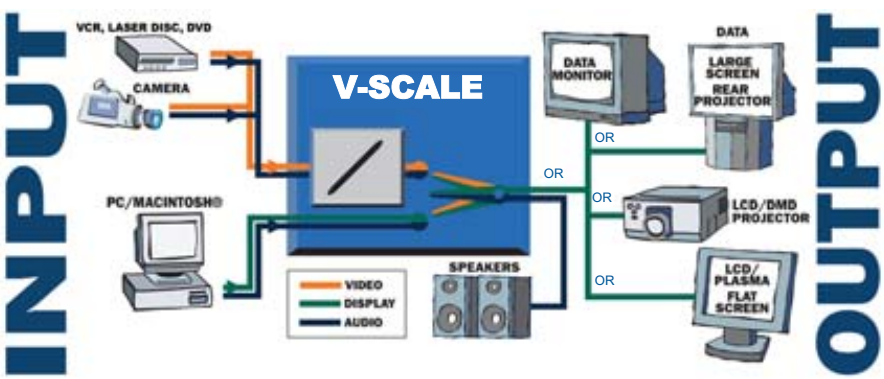
V-SCALE provides user friendly menus on an LCD display. User can easily adjust output format and image parameters through clearly designed menus.

V-SCALE offers convenient features such as full frame memory to be automatically displayed in case of loss of input sync. or as a welcome message. It will also switch automatically to a user defined source when current input signal is lost. V-SCALE offers as well a complete remote control through RS232 connection.

V-SCALE also features a stand-by automatic or manual mode, accessible on the front panel or with RS232.

V-SCALE provides audio/stereo switching following the Video input.

V-SCALE is the perfect device for conference room installations, where both Video and Computer must be displayed on a high resolution large screen.



Cables for V-Scale

> **S.Video Cables from 1.8m / 6ft to 20m / 66 ft:** Ref. 10009 - 10093 - 10094 - 10095
> **S.Video to BNC Cables of 1.8m / 6ft and 5m / 16ft:** Ref. 10102 - 10103
> **RCA Coaxial Cable of 1.2m / 4ft:** Ref. 10010
> **RCA/BNC Adaptor Cable:** Ref. 10011
> **VGA Cables of 0.4m / 1ft and 1.8m / 6ft (M/F and M/M):** Ref. 10014 - 10015 - 10077
> **VGA Multicoax Extension Cables from 3m / 10ft to 30m / 100ft (M/F and M/M):** Ref. 10016 - 10017 - 10018 - 10019 - 10073 - 10074 - 10075 - 10021 - 10022 - 10076 - 10083 - 10084 - 10085
> **VGA/BNC Adaptor Cables of 1.8m / 6ft and 3m / 10ft (M/M and F/M):** Ref. 10023 - 10024 - 10025 - 10026
> **DVI cables from 1.8m / 6ft to 70m / 230ft:** Details of references page 122

Reference

> **VSL121:** V-SCALE™

Option

> **OPT-RMK2:** Optional rack mounting kit (allows mounting 2 V-SCALE in 1U 19" rack)

Product Comparison: Analog Way Multi-Format Converters

		TETRA VIO	ULTRA VIO	VIO 1600	OPTIMIZER HD
Inputs					
	Number of Inputs	4	3	3	1
	Loopthrough for each input	✓	✓	✓	
	Composite	✓	✓	✓	✓
	S. Video	✓	✓	✓	✓
	YUV	✓	✓	✓	✓
	RGB Video	✓	✓	✓	✓
	RGB Computer	✓	✓	✓	✓
	HD-YUV	✓	✓	✓	✓
	DVI Computer	✓	✓	✓	✓
	HD/SD-SDI	✓	✓		✓
	NTSC/PAL/SECAM	✓	✓	✓	✓
	15 kHz up to 130 kHz (UXGA)	✓	✓	✓	✓
Outputs					
	Composite	✓	✓	✓	
	S. Video	✓	✓	✓	
	YUV	✓	✓	✓	
	RGB Video	✓	✓	✓	
	RGB Computer	✓	✓	✓	
	HD-YUV	✓	✓	✓	
	DVI Computer	✓	✓	✓	✓
	HD/SD-SDI	✓	✓		✓
Genlock					
	Black Burst	✓	✓		✓
	HD-YUV Black	✓	✓		✓
Output Formats					
	NTSC / PAL (525/625 L)	✓	✓	✓	
	Computer up to SXGA +, UXGA (RB*)	✓	✓	✓	✓
	Computer up to 2k	✓			✓
	HDTV up to 1080i & 720p & 1080p	✓	✓	✓	✓
Audio					
	Audio Stereo (Analog)	✓	✓	✓	✓
	Digital Audio Stereo	✓			✓
Image Controls					
Computer	Auto Centering	✓	✓	✓	✓
Computer	Auto Pixel Clock & Phase	✓	✓	✓	✓
Computer	Black / RGB Levels	✓	✓	✓	✓
Video	Brightness, contrast, color, hue	✓	✓	✓	✓
Video	Under/Over Scan	✓	✓	✓	✓
Video	Sharpness / Gamma				✓
Other Features					
	Aspect Ratio	✓	✓	✓	✓
	Test Patterns	✓	✓	✓	✓
	Control Software	✓	✓	✓	✓
	TCP/IP	Option	Option	Option	Option
	Zoom	✓	✓	✓	✓
	Rack Mountable	✓	✓	✓	✓

Multi-Format Converters

Tetra VIO

New!

p. 98

> The Universal A/V Data & HD Solution in Image Cross Conversion with Digital Audio De/Embedder
> Converts Virtually any Computer up to 2K, TV and HDTV Signals, Analog or Digital (Input/Output)
> Highly Versatile and Essential in Complex Installations and Rental Environments
> The Device to Solve any Last Minute Issues
> Multi format Genlock

Ultra VIO

p. 100

> The Universal Solution in Image Conversion
> Cross Conversion of Virtually any Computer and Video Signals, Analog or Digital (Input/Output)
> Highly Flexible, Essential in Complex Installations and Rental Environments
> The Device to Solve any Last Minute Issues
> Genlock in SDTV and HDTV

VIO 1600

p. 102

> The All in One Versatile Input/Output Converter Tool
> Cross Conversion of any Computer and Video Signals
> Highly Flexible, Essential in Complex Installations
> The Solution in Solving any Last Minute Issues

Optimizer HD

New!

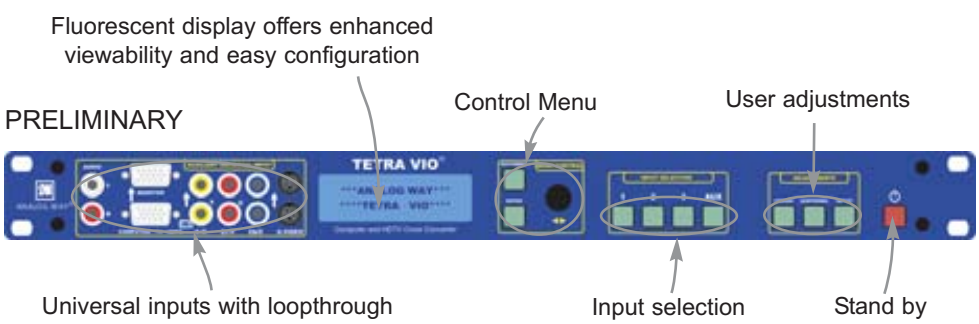
p. 104

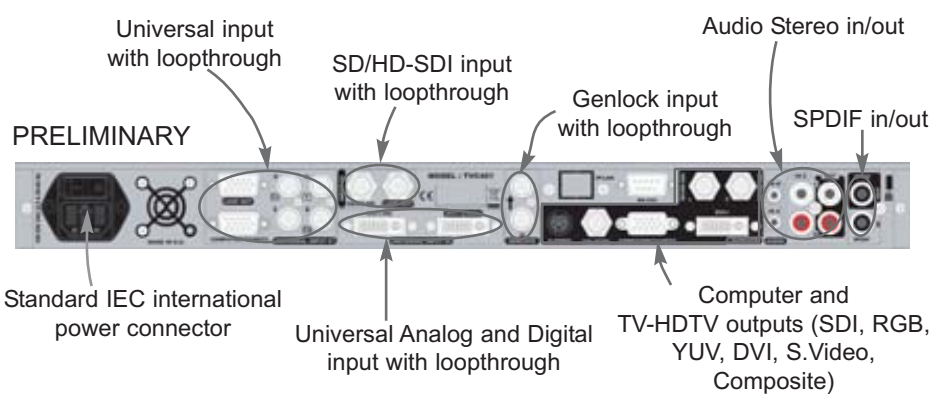
> Enhanced Scaling Technology Based on Bandlet Transform
> Universal Analog and Digital HDTV, TV or Computer into Digital HDTV or Hi-Res format
> Significant Improvement of Standard TV Images into Cinema Like or Wide Screens Displays
> DVI-D and SD/HD-SDI with Embedded Audio
> Genlock in SDTV and HDTV

Tetra-VIO™

Tetra-VIO™ New! **Model.** TVC401

- The Universal A/V Computer and HD Solution in Image Cross Conversion with Digital Audio De/Embedder
- Converts Virtually any High Resolution up to 2K, TV and HDTV Signals, Analog or Digital (Input/Output)
- Multi format Genlock
- Highly Versatile and Essential in Complex Installations and Rental Environments
- The Device to Solve every Last Minute Issues





4 A/V inputs: 3 Universal + 1 HD/SD-SDI

- Computer: RGB, DVI up to 1600x1200 & 2048x1080
- NTSC, PAL, SECAM, S.Video, RGB, YUV
- HDTV (HD-YUV, HD-RGB)
- SDI / HD-SDI
- Universal connector Interface
- Loop through on each input

Stereo Audio

- 4 inputs with level Trim / 1 output
- Embedded Audio Digital & SPDIF

Genlock

- Black Burst PAL, NTSC
- Analog HD Black

Universal output

- Computer: RGB, DVI up to UXGA & 2K
- NTSC, PAL, Composite, S. Video, RGB, YUV
- HDTV (HD-YUV, HD-RGB)
- SDI, HD-SDI

Technical Specifications

4 AV INPUTS: 3 UNIVERSAL and 1 SD/HD-SDI
- **Input #1, 2 & Aux.**
  - **HD-YUV**: HD-YCrCb - 0.7Vp/p + Sync. 3 level 75 Ohms or YCrCb; RGsB, RGBS: 0.7Vp/p + Sync. 0.3V - 75 Ohms
  - **S.Video**: YC - 0.7Vp/p + Sync. 0.3V - 75 ohms
  - **NTSC/PAL**: Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms
  - **Computer**: RGBHV, RGBS and RGsB (PC, Mac, Wkst) (130kHz max)
  - **DVI** Digital FpxMAX=165MHz TMDS 100ohms (input #2 only)
  - **Audio**: unbalanced stereo, 44kOhms/+18dBu max, adjustable level trim per input
  - **Digital Audio** SPDIF (fs 45kHz@20/24 bits)
- **Input #3**
  - **HD-SDI YUV 4:2:2** - 10 bits – 1.5 Gb/s - or SDI 270 Mb/s - 75 Ohms

Output
- **HD-SDI YUV 4:2:2** - 10 bits – 1.5 Gb/s - or SDI 270 Mb/s - 75 Ohms with embedded audio (fs=48Khz@20/24 bit)
- **HD-YUV**: HD-YCrCb - 0.7Vp/p + Sync. 3 level - 75 Ohms or YCrCb; RGsB, RGBS: 0.7Vp/p + Sync. 0.3V - 75 Ohms
- **S.Video**: YC - 0.7Vp/p + Sync. 0.3V - 75 ohms
- **NTSC/PAL**: Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- **RGBHV**, RGBS RGsB (0.7Vp/p-75ohms + Sync TTL or Analog)
- **DVI**: Digital FpxMAX=165MHz TMDS 100 Ohms
- **Stereo audio analog**: Vo=+18dBu, Zo=300 Ohms - G= -∞ to + 6dB Master Level
- **Digital Audio** SPDIF (fs 45kHz@20/24 bits)

Genlock
- Black Burst Pal or NTSC: 1 Vp/p
- HD Black - 3 Level sync
- Phase adjustments
- Active loop through output

User Control and Connectors

FRONT PANEL
- Direct access to input selection, image freeze, auto centering, image processing
- Intuitive LCD display menu for easy set up
- Fluorescent display for enhanced viewability
- **Aux. Input Connectors:**
  - 2 x mini-DIN 4 for S.Video In and loopthrough
  - 6 x RCA for TV/TVHD In and loop through
  - 2 x HD15F for PC/TV/TVHD In and loop through
  - 2 x RCA for stereo audio in

REAR PANEL
- **Input 1 Connectors:**
  - 1 x HD15 for Computer/TV/HDTV In
  - 4 x BNC for TV/HDTV In
  - 1 x HD15 for loop through
  - 2 x RCA (stereo audio in)
- **Input 2 Connectors**:
  - 1 x DVI-I for digital and analog Computer/TV/HDTV
  - 1 x DVI-I for loop through
  - 3.5mm jack for stereo audio in
- **Input 3 Connectors**:
  - 1 x BNC for SDI/HD-SDI
  - 1 x BNC for loop through
  - 3.5mm jack for stereo audio in
- **Output Connectors**:
  - 1 x HD15
  - 1 x BNC (PAL/NTSC)
  - 1 x BNC (SDI/HD-SDI)
  - 1 x mini DIN 4 pin
  - 1 x DVI-I digital and analog
  - 2 x RCA (stereo audio)
- **Other:**
  - 1 x BNC for Genlock input
  - 1 x BNC for Genlock output loop
  - 1 x DB9 for RS232 control and upgrade
  - RJ45 for TCP/IP, optional
  - 2 x RCA for Digital Audio In & Out

Power Supply
- Internal, universal, automatic, 100-250 VAC; 50/60 Hz (40 W) (UL, CSA, GS, CE) ON/OFF AC Main switch

Supplied with
- 1 x DVI-I/HD15 adaptor
- 1 x HD15 to 5BNC adaptor cable
- 1 x Power cable
- 1 x Remote control software
- 1 x User manual

Dimensions: 19", 1U
- D 10.4" x W 19" x H 1.74"
- D 265 mm x W 482 mm x H 44 mm

Weight: 3.8 kg / 8.4 lbs

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Tetra-VIO™ by Analog Way is a highly versatile A/V Switcher / Converter / Interface with 3 universal Inputs and 1 SD/HD-SDI Input. It accepts a large range of formats, from Computer to Video and HDTV, in Analog or Digital format, and provides a large range of connectors: BNC, HD15, DVI, mini DIN4, Cinch, RCA. The output provides the same diversity of formats, and the same type of signals and connectors.

4 A/V Inputs: 3 Universal + 1 HD/SD-SDI

Each of the 3 universal inputs features an active loop through (monitoring) for easy control of the sources and accepts the following formats : - TV: NTSC/PAL/SECAM, S.Video, RGB or YUV, HDTV in HD-YUV or HD-RGB analog, - Computer formats: RGB up to UXGA and 2K. Input 2 also accepts digital DVI signal. The 4th input is dedicated to SDI & HD-SDI 10 bits with embedded stereo audio.

Genlock

Equipped with an Analog Genlock input with an active loop through. **Tetra-VIO** offers a choice between SDTV Black Burst and Black HD-YUV. It allows genlocking of HDTV output signal on an SDTV Black Burst. User phase adjustments are available for a perfect result.

Formats i/o

Tetra-VIO supports numerous input and output formats and signal types. These formats are:

HDTV • 720p @ 60, 59.94 & 50 Hz
• 1080i @ 60, 59.94 & 50 Hz
• 1035i @ 60 Hz & 59.94 Hz,
• 1080sF @ 30, 29.97 & 25 Hz,
• 1080p @ 30, 29.97, 25, 24, 23.98 Hz

SDTV • NTSC – 525i @ 60 & 59.94 Hz – 15.735 kHz
• PAL – 625i @ 50 Hz – 15.625 kHz
• Progressive NTSC - 31.471 kHz@60/59.94Hz
• Progressive PAL - 31.250kHz@50Hz

COMPUTER • up to 2048x1080RB & 1600x1200 @60Hz in both analog RGB & DVI

Cables for Tetra-VIO

> BNC Cables from 1.8m/6ft to 20m/66ft:
Ref. 10038 - 10039 - 10096 - 10098 - 10100
> S.Video Cables from 1.8m/6ft to 20m/66ft:
Ref. 10009 - 10093 - 10094 - 10095 - 10102 - 10103
> RCA Cables: Ref. 10010 - 10011
> VGA Cables from 0.4mm/6ft to 30m/100ft: Ref. 10014 - 10015 - 10077 - 10016 - 10021 - 10017 - 10022 - 10018 - 10019 - 10076 - 10073 - 10083 - 10074 - 10084 - 10075 - 10085
> VGA/BNC Adaptor Cables of 1.8m/6ft and 3m/10ft (M/M - F/M):
Ref. 10023 - 10024 - 10025 - 10026 - 10124
> Control Cable from 0.5m/1ft to 30m/100ft:
Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> BNC SDI-HD M/M Cables from 3m/10ft to 30m/100ft M/M:
Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 - 10141
> DVI Cables from 1.8m/6ft to **70m/230ft** - See details page 122

Output

The same format is available simultaneously on different outputs. For example: Computer formats are delivered in RGB and in DVI-D at the same time, SD-TV formats are available in Composite, S.Video, YUV and SDI, etc.

Tetra-VIO features 4 Analog Audio Stereo In and 1 Out and also one Digital SPDIF audio In/Out. It allows embedding Analog and SPDIF Digital Audio stereo signal into SD/HD-SDI with A/V delay compensation. (Fs: 48kHz – 20/24 bits). It also extracts and outputs SPDIF digital Audio stereo signal from the SD/HD-SDI embedded stream.

Tetra-VIO offers a high quality image thanks to:
- its new high performance true 10 bits video path processing with automatic 3:2 and 2:2 pull down circuitry,
- de-interlaced SD and HD TV format,
- auto adaptative pixel per pixel level motion compensation,
- auto centering, clock, time base corrector,
- frame rate converter and follower and
- multi-level anti-flicker.

The image adjustments and device setup are recorded in a non-volatile memory.

Tetra-VIO is a universal device with six functions in one: Scan Converter, Scaler, Standard converter with TBC, Audio De/Embedder, Switcher and Interface. Its high flexibility makes it essential in complex installations. It is extremely useful in solving signal compatibility issues at the last minute. In addition to a powerful multi-format Converter, **Tetra-VIO** is also a smooth and fast Audio / Video Switcher offering many useful possibilities such as 500% Zoom, user programmable EDID for DVI input, etc… The standard RS232 connection and Gui allow a full remote control of the device and also upgrade capability to maintain the high value of your equipment. Optional RJ45 is available for TCP/IP control.

Tetra-VIO is your accurate "all in one" Versatile Input/Output tool.

Reference

> TVC401: Tetra-VIO™

Option

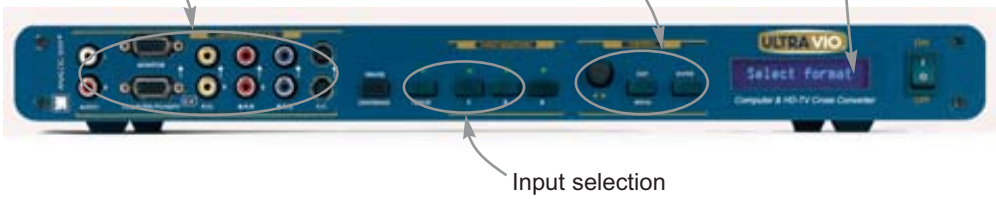
> OPT-LAN: TCP/IP Control Interface

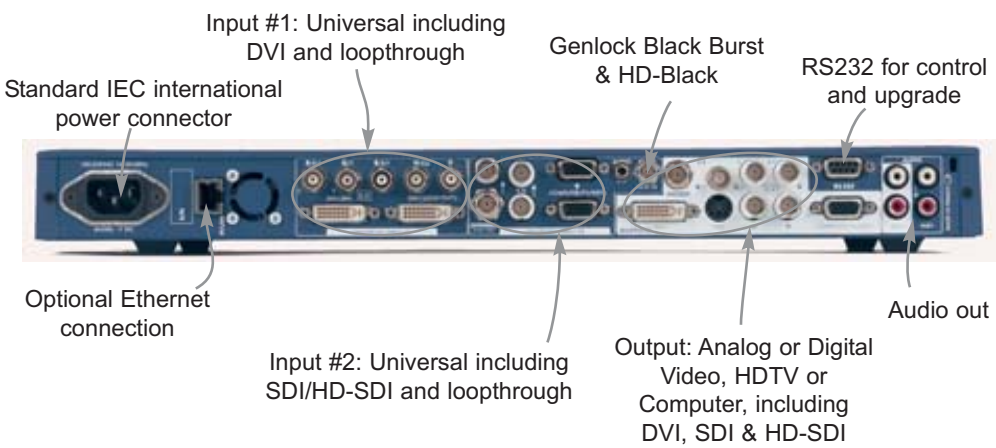
Ultra-VIO™

Ultra-VIO™

Model. VU301-IOD1

- The Universal Solution in Image Conversion
- Cross Conversion of Virtually any Computer and Video Signals, Analog or Digital (Input/Output)
- Highly Flexible, Essential in Complex Installations and Rental Environments
- The Device to Solve any Last Minute Issues
- Genlock in SDTV and HDTV





3 Universal Inputs

- Computer: RGB, DVI up to 1600x1200
- NTSC, PAL, SECAM, S.Video, RGB, YUV
- HDTV (HD-YUV, HD-RGB)
- SDI / HD-SDI 10 bits
- Universal connector Interface
- Loopthrough on each input

Stereo Audio

- 3 inputs with level trim / 1 output

Genlock

- Black Burst PAL, NTSC
- Analog HD Black

Universal output

- Computer: RGB, DVI up to SXGA+, UXGA
- NTSC, PAL, Composite, S. Video, RGB, YUV
- HDTV (HD-YUV)
- SDI, HD-SDI 10 bits

Technical Specifications

3 Universal Inputs
- **SDTV**: Composite, S.Video, RGBS, YUV, SDI
  NTSC: 15.735 kHz/60 Hz,
  PAL/SECAM: 15.625 kHz/50Hz
- **TVHD**: HD-YUV (3 level sync, 3 wires), HD-SDI, 1080i/60Hz, 1080i/50Hz, 720p/60Hz, 480p/60Hz
- **SDI & HD-SDI**: Input 2, 4:2:2,10 bits
- **Computer**: RGBHV, RGBS and RGsB (PC, Mac, Wkst), auto centering, phase, sync, from 640x480 to 1600x1200 (130kHz max)
- **DVI** on input 1
- **Audio**: unbalanced stereo, 44Ohms/+18dBu max, adjustable level trim per input

Outputs
- Black Burst Pal or NTSC: 1 Vp/p
- HD Black - 3 Level sync
- Phase adjustments

Output
- **SDTV**: Composite, S.Video, YUV, RGsB, RGBS, SDI
  NTSC: 15.735kHz/60Hz,
  PAL: 15.625kHz/50Hz
- **HD-YUV**: 1080i/50-60Hz, 720p/60-50Hz, 480p/60-50Hz
- **SDI & HD-SDI** 10 bits 4.2.2
- **Computer**: RGBHV, RGBS (TTL or 0,3 Analog), RGsB, DVI, from 640x480 to 1600x1200
- **Stereo audio**: Vo=+18dBu, Zo=300 Ohms
  G= - ∞ to + 6dB Master Level

User Controls and Connectors

FRONT PANEL
- Direct access to input selection, image freeze, auto centering, image processing
- Intuitive LCD display menu for easy set up
- Fluorescent display for enhanced viewability
- **Input 3 Connectors:**
  - 2 x mini DIN 4 for S.Video In and loopthrough
  - 6 x RCA for TV In and loopthrough
  - 2 x HD15F for PC/TV/TVHD In and loopthrough
  - 2 x RCA for stereo audio in

REAR PANEL
- **Input 1 Connectors:**
  - 2 x DVI-I and 5 BNC for digital and analog Computer/TV/HDTV and loopthrough
  - 2 x RCA (stereo audio in)
- **Input 2 Connectors:**
  - 2 x BNC for Composite and loopthrough
  - 2 x HD15 for Computer/TV/HDTV and loopthrough
  - 2 x BNC for SDI/HD-SDI and loopthrough
  - 3.5mm jack for stereo audio in
- **Output Connectors:**
  - 1 x HD15
  - 5 x BNC
  - 1 x BNC (SDI/HD-SDI)
  - 1 x 4 pin mini DIN
  - 1 x DVI-I digital and analog
  - 2 x RCA (stereo audio)
- **Other:**
  - 1 x BNC for Genlock input
  - 1 x DB9 for RS232 control and upgrade
  - RJ45 for TCP/IP, optional

Power Supply
- Internal, universal, automatic, 100-250 VAC; 50/60 Hz (50 W) (UL, CSA, GS, CE) ON/OFF AC Main switch

Supplied with
- 1 x DVI-I/HD15 adaptor
- 1 x HD15/HD15 cable
- 1 x 5BNC/5BNC cable
- 1 x Y/C cable
- 1 x DVI-D M/M cable
- 1 x Power cable
- 1 x Remote control software
- 1 x Rack mount kit (US)
- 1 x User manual

Dimensions: 19", 1U
- D 11.8" x W 17.8" x H 1.74"
- D 300 mm x W 452 mm x H 44 mm

Weight: 3.8 kg / 8.4 lbs

Warranty
3 year warranty on parts and labor back to the factory

Specifications subject to change without prior notice

Ultra-VIO™ by Analog Way is a highly versatile Switcher / Converter / Interface with 3 universal inputs. It accepts a large range of formats, from Computer to Video and HDTV, in Analog or Digital format, and provides a large range of connectors: BNC, HD15, DVI, mini DIN4, Cinch, RCA. The output provides the same diversity of formats, and the same type of signals and connectors.

3 Universal Inputs

Each input features an active loopthrough (monitoring) for easy control of the sources and accepts the following TV formats: NTSC/PAL/SECAM, S.Video, RGB or YUV, HDTV in HD-YUV, 10 bit SDI & HD-SDI (on input 2) and Computer formats: RGB up to UXGA, and DVI (on Input 1).

Genlock

Equipped with an Analog Genlock input, **Ultra-VIO** offers a choice between SDTV Black Burst and Black HD-YUV. It allows genlocking of HDTV output signal on an SDTV Black Burst.

Output

Ultra-VIO generates various output formats: PAL, NTSC, Y/C, YUV, SDI, HD-YUV, HD-SDI or Computer, analog RGB or digital DVI. More than a powerful multi-format Converter, **Ultra-VIO** also allows a smooth and fast Switching.

Ultra-VIO is a universal device with five functions in one: Scan Converter, Scaler, Standard Converter with TBC, Switcher and Interface.

Ultra-VIO offers a high quality image thanks to its automatic 3:2 and 2:2 pull down circuitry, auto adaptative per pixel level motion compensation, auto centering & pixel clock, time base corrector, frame rate converter and follower and multi-level anti-flicker. The configurable adjustments are recorded in a non-volatile memory.

Ultra-VIO is a highly flexible device which is essential in complex installations. It is extremely useful in solving any last minute issues.

Ultra-VIO is your “all in one” Versatile Input/Output tool.

Cables for Ultra-VIO

> **BNC Cables from 1.8m/6ft to 20m/66ft:**
Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **S.Video Cables from 1.8m/6ft to 20m/66ft:**
Ref. 10009 - 10093 - 10094 - 10095 - 10102 - 10103
> **RCA Cables:** Refs 10010 - 10011
> **VGA Cables from 0.4m/6ft to 30m/100ft:** Ref. 10014 - 10015 - 10077 - 10016 - 10021 - 10017 - 10022 - 10018 - 10019 - 10076 - 10073 - 10083 - 10074 - 10084 - 10075 - 10085
> **VGA/BNC Adaptor Cables of 1.8m/6ft and 3m/10ft (M/M - F/M):**
Ref. 10023 - 10024 - 10025 - 10026 - 10124
> **Control Cables from 0.5m/1ft to 30m/100ft:**
Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **BNC SDI-HD M/M Cables from 3m/10ft to 30m/100ft M/M:**
Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 - 10141
> **DVI Cables** from 1.8m/6ft to **70m/230ft** - See details page 122

Reference

> **VU 301-IOD1:** ULTRA VIO™

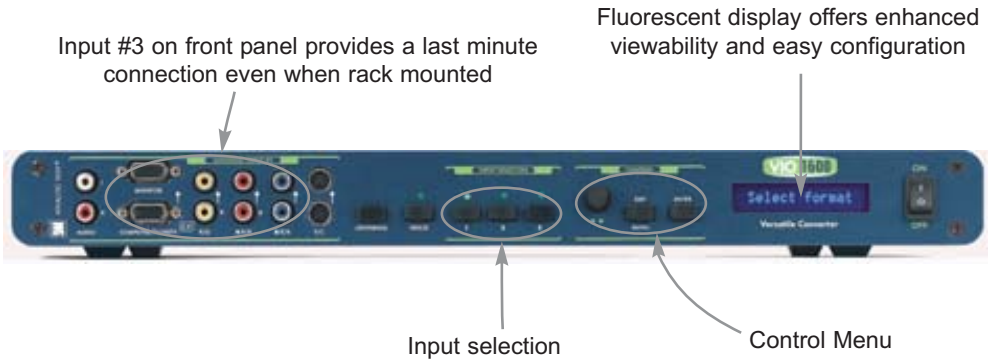
Options

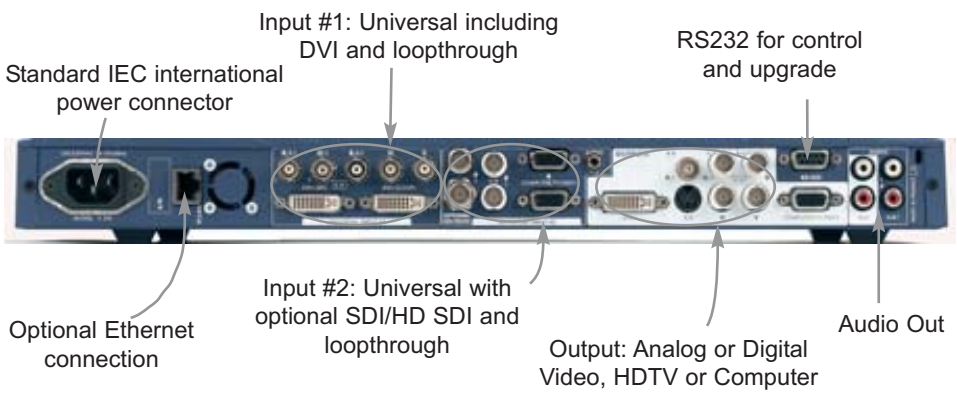
> **OPT-LAN:** TCP/IP Control Interface
> **OPT-RMK1:** Rack mount kit (Europe and Asia)

VIO 1600™

Model. V301

- The All in One Versatile Input/Output Converter Tool
- Cross Conversion of any Computer and Video Signals
- Highly Flexible, Essential in Complex Installations
- The Solution in Solving any Last Minute Issues





3 Universal A/V Inputs

- Computer: RGB, DVI up to 1600x1200
- NTSC, PAL, SECAM, S.Video, RGB, YUV
- HDTV (HD-YUV)
- SDI / HD-SDI 10 bits (optional)
- Universal connectors Interface
- Loopthrough on each input

Universal Output

- Computer: RGB, DVI up to SXGA+
- Composite, S. Video, RGB, YUV
- HDTV (HD-YUV)

Stereo Audio

- 3 inputs with level trim / 1 output

Technical Specifications

3 Universal Inputs

- SDTV: Composite, S.Video, RGBS
  NTSC= 15.735 kHz/60 Hz
  PAL/SECAM= 15.625 kHz/50Hz
- TVHD: HDYUV (3 level sync, 3 wires) 1080i/60Hz, 1080i/50Hz, 720p/60Hz, 480p/60Hz
- SDI & HD-SDI on V301-D1 model only, input 2, YUV - 4:2:2
- Computer: RGBHV, RGBS and RGsB (PC, Mac, Wkst), auto centering, phase, sync, from 640x480 to 1600x1200 (130kHz max)
- DVI on input 1
- Audio: unbalanced stereo, 44k Ohms/ +18dBu max, adjustable trim level per input

Output

- SDTV: Composite, S.Video, YUV, RGsB, RGBS
  NTSC: 15.735kHz/60Hz
  PAL: 15.625kHz/50Hz, 1080i / 60-50Hz
- HD-YUV 720p/60-50Hz, 480p/60-50Hz
- Computer: RGBHV, RGBS (TTL or 0,3 Analog), RGsB, DVI, from 640x480 to 1600x1200
- Stereo audio: Vo=+18dBu, Zo=300 Ohms
  G= -∞ to + 6dB Master level

User Controls and Connectors

FRONT PANEL

- Buttons for direct access to input selection, image freeze, auto centering, image processing
- Intuitive LCD display menu for easy set up

Input 3 Connectors:

- 2 x mini DIN 4 for S.Video in and loopthrough
- 6 x RCA for TV in and loopthrough
- 2 x HD15F for PC/TV/TVHD in and loopthrough
- 2 x RCA for stereo audio

REAR PANEL

Input 1 Connectors:

- 2 x DVI-I and 5 BNC for digital and analog PC/TV/HDTV and loopthrough
- 2 x RCA (stereo audio)

Input 2 Connectors:

- 2 x mini DIN 4 for S.Video in and loopthrough
- 2 x HD15 for PC/TV/HDTV and loopthrough
- Optional 2 BNC for SDI/HD-SDI
- 3.5mm jack for stereo audio

Output Connectors:

- 1 x HD15
- 5 x BNC
- 1 x 4 pin mini DIN
- 1 x DVI-I digital and analog
- 2 x RCA (stereo audio)

Other:

- 1 x DB9 for RS232 control and upgrade
- RJ45 for TCP/IP, optional

Power Supply

- Internal, universal, automatic, 100-250 VAC; 50/60 Hz (50 W) (UL, CSA, GS, CE) On/Off AC Main switch

Supplied with

- 1 x DVI-I/HD15 adaptor
- 1 x HD15/HD15 cable
- 1 x 5BNC/5BNC cable
- 1 x Y/C cable
- 1 x Power cable
- 1 x Remote control software
- 1 x Rack mount kit (US)
- 1 x User manual

Dimensions: 19", 1U

- D 11.8" x W 17.8" x H 1.74"
- D 300 mm x W 452 mm x H 44 mm

Weight: 3.8 kg / 8.4 lbs

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

VIO 1600™ by **Analog Way** is a **multi-purpose Switcher / Converter / Interface**, with 3 universal inputs. It accepts a large range of formats, from Computer to Video and HDTV, in Analog or Digital format, and a large range of connectors: BNC, HD15, DVI, mini DIN4, Cinch, RCA. The output provides the same diversity of formats, type of signals and connectors.

3 Universal Inputs

Each input features an active loopthrough (monitoring) for easy control of the sources and accepts the following TV formats: NTSC/PAL/SECAM, S.Video, RGB or YUV, HDTV in HD-YUV and Computer formats: RGB up to UXGA. Input 1 also accepts DVI-I. A 10 bit SDI / HD-SDI input is available on input 2 of **VIO 1600-D1**.

Output

VIO 1600 generates various output formats: PAL, NTSC, Y/C, YUV, HD-YUV or Computer, Analog RGB or Digital DVI. More than a powerful multi-format converter, **VIO 1600** is also a smooth and fast Switcher.

VIO 1600 is a universal device with five functions in one: Scan Converter, Scaler, Standard Converter with TBC, Switcher and Interface.

VIO 1600 offers high quality image thanks to its automatic 3:2 and 2:2 pull down circuitry, auto adaptative per pixel level motion compensation, auto centering & pixel clock, time base corrector, frame rate converter and follower and multi-level anti-flicker. The configurable adjustments are recorded in a non volatile memory.

VIO 1600 is a highly flexible device which is essential in complex installations. It is useful to solve any last minute issues.

VIO 1600 is your "all in one" Versatile Input/Output tool.

Cables for VIO 1600

> **BNC Cables from 1.8m/6ft to 20m/66ft:**
Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **S.Video Cables from 1.8m/6ft to 20m/66ft:**
Ref. 10009 - 10093 - 10094 - 10095 - 10102 - 10103
> **RCA Cables: Ref.** 10010 - 10011
> **VGA Cables from 0.4mm/6ft to 30m/100ft:** Ref. 10014 - 10015 - 10077 - 10016 - 10021 - 10017 - 10022 - 10018 - 10019 - 10076 - 10073 - 10083 - 10074 - 10084 - 10075 - 10085
> **VGA/BNC Adaptor Cables of 1.8m/6ft and 3m/10ft (M/M - F/M):**
Ref. 10023 - 10024 - 10025 - 10026 - 10124
> **Control Cables from 0.5m/1ft to 30m/100ft:**
Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114
> **BNC SDI-HD M/M Cables from 3m/10ft to 30m/100ft M/M:**
Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 - 10141
> **DVI Cables** from 1.8m/6ft to **70m/230ft** - See details page 122

References

> **V301:** VIO 1600™
> **V301-ID1:** VIO 1600™ with 10 bits HD/SD-SDI input

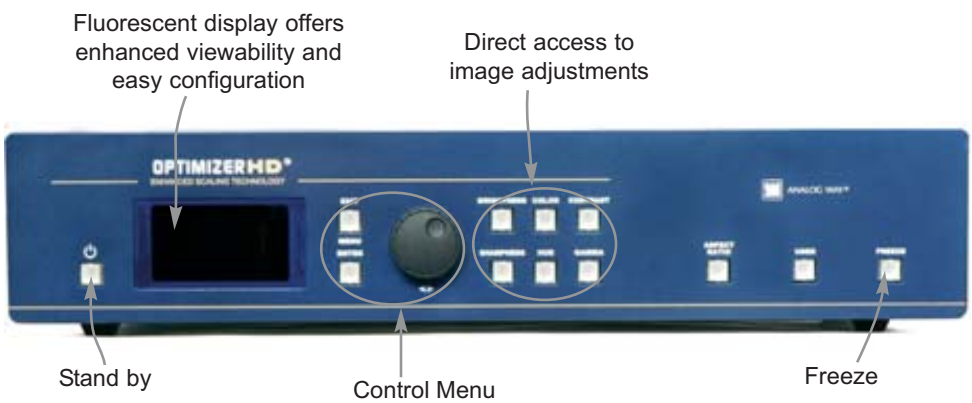
Options

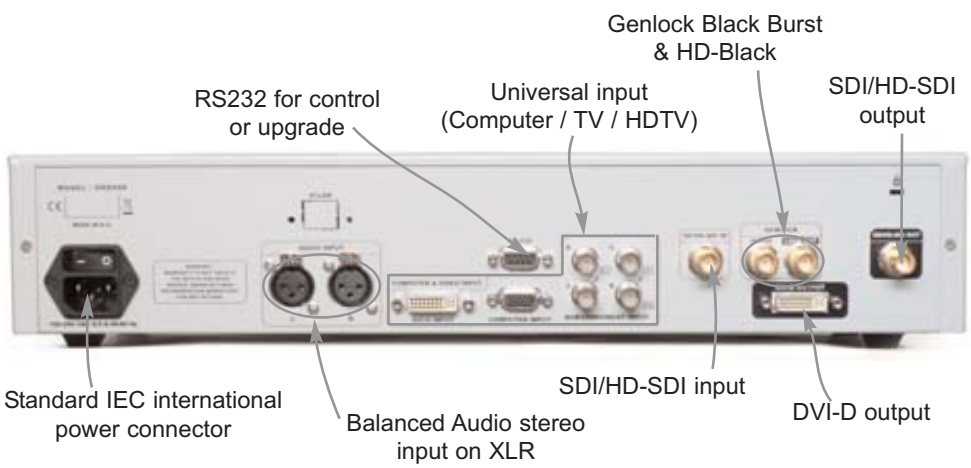
> **OPT-LAN:** TCP/IP Control Interface
> **OPT-RMK1:** Rack mount kit (Europe and Asia)

Optimizer HD™

Optimizer HD™ New! **Model.** OHD888

- Enhanced Scaling Technology Based on Bandlet Transform
- Universal Analog and Digital HDTV, TV or Computer into Digital HDTV or Hi-Res format
- Significant Improvement of Standard TV Images into Cinema Like or Wide Screens Displays
- DVI-D and SD/HD-SDI with Embedded Audio
- Genlock in SDTV and HDTV





Inputs

- TV: NTSC, PAL, SECAM, S.Video, RGB, YUV
- HDTV: HD-YUV, HD-RGB
- SDI / HD-SDI 10 bits
- Computer: RGB, DVI up to 1600x1200 & 2048x1080

Stereo Audio

- Balanced Audio Stereo input on XLR
- Embedded Audio with level and delay adjustment

Genlock

- Black Burst PAL, NTSC
- Analog HD Black

Universal output

- SDI / HD-SDI 10 bits
- Computer: DVI-D up to UXGA & 2K

Technical Specifications

A/V Input
- HD-RGB, HD-YCrCb - 0.7Vp/p + Sync. 3 level +/- 0.3V - 75 Ohms or YCrCb; RGsB, RGBS: 0.7Vp/p + Sync. 0.3V - 75 Ohms
- **S.Video**: YC - 0.7Vp/p + Sync. 0.3V - 75 ohms
- **NTSC/PAL**: Composite Video - 0.7Vp/p + Sync. 0.3V - 75 Ohms
- **HD-SDI YUV** 4:2:2 - 10 bits – 1.5 Gbs - 75 Ohms or SDI YUV 4:2:2 – 10 bits – 270 Mbs - 75 Ohms (fs=48Khz@20/24 bit)
- **Computer**: RGBHV, RGBS and RGsB (PC, Mac, Wkst) (130kHz max)
- **DVI Digital** FpxMAX=165MHz TMDS 100 Ohms
- **Audio**: balanced or unbalanced stereo, 44kOhms/+18dBu max, adjustable trim level

Output
- HD-SDI YUV 4:2:2 - 10 bits – 1.5 Gbs - or SDI - 270 Mbs - 75 Ohms with embedded stereo audio (fs=48Khz@20/24 bit)
- DVI: Digital FpxMAX=165MHz TMDS 100 Ohms

Display Output
- Black Burst Pal or NTSC: 1 Vpp – 75 ohms
- HD Black - 3 Level sync.
- Phase adjustments (H, SCO, Vertical lock)
- Active loop through output

User Controls and Connectors

FRONT PANEL
- Direct access to image adjustments freeze, aspect ratio, …
- Intuitive VFD menu for easy set up
- Fluorescent display for enhanced viewability

REAR PANEL
- Input Connectors:
  - 1 x HD15F for PC/TV/TVHD
  - 4 x BNC for TV/HDTV
  - 1 x BNC for SDI/HD-SDI
  - 1 x DVI-I for digital Computer/TV/HDTV
  - 2 x XLR-3 for stereo audio
- **Output Connectors:**
  - 1 x BNC for SDI/HD-SDI
  - 1 x DVI-I for Digital only
- **Other:**
  - 1 x BNC for Genlock input
  - 1 x BNC for Genlock output loop
  - 1 x DB9 for RS232 control and upgrade
  - RJ45 for TCP/IP: Optional

Power Supply
- Internal, universal, automatic, 100-250 VAC; 50/60 Hz (40 W) (UL, CSA, GS, CE) ON/OFF AC Main switch

Supplied with
- 1 x Power cable
- 1 x Remote control software
- 1 x User manual

Dimensions: 19", 2U
- D 11.8" x W 18" x H 3.48"
- D 300 mm x W 450 mm x H 88 mm

Weight: 3,8 kg (8.4 lbs)

Warranty
3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Optimizer HD™ by Analog Way

Optimizer HD™ by Analog Way is a High Grade Universal Up/Down Scaler. Fitted with universal Analog or Digital Input, Optimizer HD converts any TV, HDTV or PC signal into a Digital TV, HDTV or Hi-Res PC format.

Optimizer HD input signal can be Analog NTSC/PAL/SECAM, S.Video, RGB/YUV, HD-YUV, RGBHV, RGBS, RGsB or Digital DVI and SD/HD-SDI. Optimizer HD supports TV and HDTV formats including 1080p and 1080sF@24/25Hz and computer formats from VGA to UXGA and 2K@60 Hz.

Optimizer HD outputs Digital signal with the following formats:

HDTV • 720p @ 60, 59.94 & 50 Hz
- 1080i @ 60, 59.94 & 50 Hz
- 1035i @ 60 Hz & 59.94 Hz,
- 1080sF @ 24, 23.98 Hz & 25 Hz
- 1080p @ 30, 29.97, 25, 24, 23.98 Hz

SDTV • 525i @ 60 & 59.94 Hz – 15.735 kHz
- 625i @ 50 Hz – 15.625 kHz
- 480p @ 60/59.94 Hz – 31.471 kHz (Progressive NTSC)
- 576p @ 50 Hz – 31.250 kHz (Progressive PAL)

COMPUTER • up to 2048x1080RB & 1600x1200 @ 60Hz

Output is available in DVI-D and SDI at the same time when the selected format is compatible.

Optimizer HD provides an amazing image quality thanks to its new powerful geometric bandlet based computing technology. The true 10 bits TV/HDTV processing path is preserved by state of the art over sampling 12 bits A/D converters. It features Real time Motion Adaptive de-interlacing, correction of compression artefact, noise removal, 3:2 and 2:2 Pull Down correction, scaling with special edge diagonal compensation, are taken to a an incomparable level of quality providing the best picture quality ever seen. Optimizer HD also operates as a time base corrector and frame rate converter.

Optimizer HD upgrades SDTV image quality to almost true HDTV shot picture. In computer Auto clock and phase adjustments, assure a true picture up or down scaling with every original pixels of the image. The image adjustments and device setup are recorded in a non-volatile memory.

Optimizer HD is equipped with an Analog Genlock input with an active loop through. Optimizer HD offers a choice between SDTV Black Burst and Black HD-YUV. It allows genlocking of HDTV output signal on an SDTV Black Burst. User phase adjustments are available for a perfect result.

Optimizer HD features analog Balanced Audio Stereo Input for embedding Audio into the SD/HD-SDI signal with A/V delay compensation. (Fs: 48 kHz – 20/24 bits).

Optimizer HD is a device that provides a Scan Converter, a Scaler, a Standard converter with TBC functions in one box. Its high flexibility combined with its processing quality makes it essential in professional Broadcast, D.Cinema and High End Pro AV environments.

Optimizer HD large front panel shows many direct access image adjustments with a bright easy to read fluorescent display and a convenient control knob. It offers many useful features such as a 500% Zoom, user programmable EDID for DVI input, etc… The standard RS232 connection and Gui allow a full remote control of the device and also upgrade capability to maintain the high value of your equipment. Optional RJ45 is available for IP control.

Optimizer HD provides real time TV to HDTV stunning conversion.

Cables for Optimizer HD

> **BNC Cables from 1.8m/6ft to 20m/66ft:**
Ref. 10038 - 10039 - 10096 - 10098 - 10100

> **S.Video Cables from 1.8m/6ft to 20m/66ft:**
Ref. 10009 - 10093 - 10094 - 10095 - 10102 - 10103

> **VGA Cables from 0.4mm/6ft to 30m/100ft:** Ref. 10014 - 10015 - 10077 - 10016 - 10021 - 10017 - 10022 - 10018 - 10019 - 10076 - 10073 - 10083 - 10074 - 10084 - 10075 - 10085

> **Control Cables from 0.5m/1ft to 30m/100ft:**
Ref. 10109 - 10110 - 10111 - 10112 - 10113 - 10114

> **BNC SDI-HD M/M Cables from 3m/10ft to 30m/100ft M/M:**
Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 - 10141

> **DVI Cables** from 1.8m/6ft to **70m/230ft** - See details page 122

Reference

> **OHD888:** Optimizer HD™

Option

- OPT-LAN: IP/Ethernet Control

DVI Interfaces

iX Mate

p. 107

> MultiWay Digital and Analog Distribution Amplifier
> 5 Channels of : 1 Input to 3 Amplified Outputs
> DVI-D, SD/HD-SDI, Universal RGB for PC, TV & HDTV
> I/O LED indicators on front panel
> Distributes simultaneously sources to any Switcher of the ***iX***, Octo and Quattro Ranges

Trident DVI

p. 108

> Dual Channel DVI-D Distribution Amplifier
> 2 x (1 Input to 3 Outputs) or 1 Input to 5 Outputs
> Built-In Universal Power Supply and 1/2 rack mountable
> Front Panel i/o LED Indicators

Tri-DVI Splitter

p.108

> DVI-D Distribution Amplifier with 1 Input to 3 Outputs
> Built-In Universal Power Supply and 1/2 rack mountable
> Front Panel i/o LED Indicators

DVI Cable

p. 109

> Long Distance equalized Copper DVI-D Cables up to 70m/230ft
> For High Resolution sources up to 1080p@60 Hz and 1600x1200@60Hz
> Complete Range from 1,8m/6ft to 70m/230ft, self powered

iX Mate™

iX Mate™

Model. XM513

- MultiWay Digital and Analog Distribution Amplifier
- 5 Channels of: 1 Input to 3 Amplified Outputs
- DVI-D, SD/HD-SDI, Universal for PC, TV & HDTV
- For Broadcast Environment and AV Pro Presentation
- Distributes simultaneously sources to any Switcher of the *iX*, Octo and Quattro Ranges

Technical Specifications

DVI Channel x 1
- 1 input to 3 outputs
- 4 x DVI-I female connectors
- Up to 1600x1200@60Hz-1920x1200@60Hz Red. Blanking
- Support HDTV Formats: 1080i/p, 720p.
- DVI-D TMDS Single Link - 165MHz reclocked
- DDC2 loopthrough on output 1

SD/HD-SDI Channels x 2

Each channel is:
- 1 input to 3 outputs
- 4 x BNC connectors
- Format: TV 525i, 625i – HDTV 1080i/p/sF, 720p
- Digital YUV – 4:2:2 – 10 bits
- 270MHz / 1.5GHz
- Equalizer & re-clocked

RGB HV Channels x 2

Each channel is:
- 1 input to 3 outputs
- 4 x HD15 female connectors
- YUV, RGB HV, RGB/S, RGsB, Y/C, Composite, HD-YUV, HD-RGB compatible
- Line frequency: 15 kHz up to 130 kHz
- Frame frequency: 24 Hz up to 130 Hz
- Bandwidth: 400 MHz (-3dB)
- Signals: RGB/YUV: 0,7V up to 1 Vp/p
- H/ Composite sync. and V sync: TTL
- 2 and 3 levels sync. (HD) compatible
- DDC2 loopthrough on output 1

User Controls

Rear panel
- On/Off Power Switch

Front panel
- Power On LED indicator
- Input signal detected LED indicator for each input
- Output load LED indicator for each output

Power Supply
- Internal, universal, automatic, 100/250VAC, 50/60 Hz, 20 W

Supplied with
- 1 x Power cable
- 1 x User manual

Dimensions: 19" compatible, 1 unit
- D 7.5" x W 19" x H 1.74"
- D 190 mm x W 482 mm x H 44 mm

Weight: 2.5 kg (5.5 lbs)

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

iX Mate™ by **Analog Way** is a **Multiway Universal Analog and Digital Distribution Amplifier** with 5 channels {1 input to 3 outputs} for DVI, SD/HD-SDI and all Analog signals. Designed for and compatible with the *iX* Range, **iX Mate** will secure your complete installation.

iX Mate will considerably accelerate the set up time of multi-*iX* products configuration especially in case of multi-screen applications with or without Edge Blending, as it completely avoid any matrix switching and associated control.

iX Mate distributes and amplifies any Computer, HDTV and Video source, whether Analog or Digital, from an HD camera, DVD player, PC, workstation, digital Video player, etc...

Each DA offers the latest technology: Full re-synchronization of SD/HD-SDI signals, DVI-D and RGB HV up to UXGA with DDC transmissions on output 1.

iX Mate is ideal for any applications using both Analog and Digital signals.

Features

- 5 Distribution Amplifiers of 1 input to 3 outputs:
  - 1 DVI-D re-clocked up to 1600x1200@60Hz
  - 2 SD/HD-SDI with Equalizer and re-clocking
  - 2 RGBHV / YUV / Composite / Y/C
- I/O detect LED indicators on front panel
- Perfect fit with iX family for multiscreen applications
- Internal power supply

Reference

XM513: iX Mate™

Cables for iX Mate

> **VGA Cables from 0.4m / 1ft to 1.8m / 6ft M/F et M/M:**
Ref. 10014 - 10015 - 10077

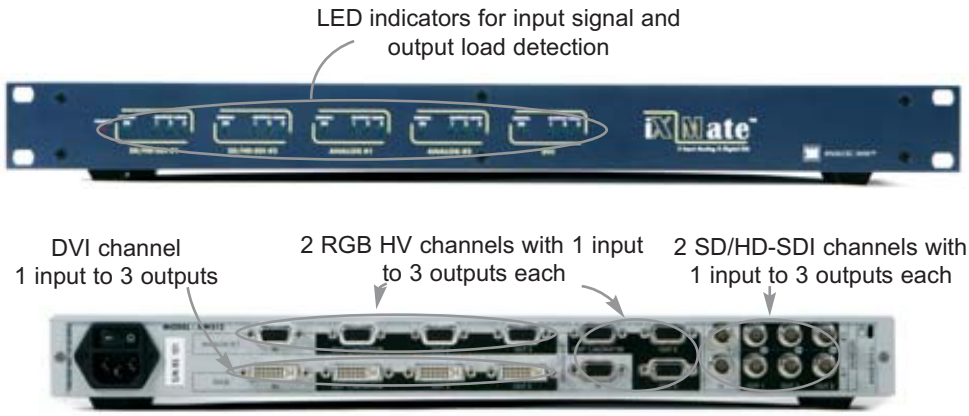
> **Multicoax Extension Cables from 3m / 10ft to 30m / 100ft:**
Ref. 10016 - 10017 - 10018 - 10019 - 10073 - 10074 - 10075 - 10021 - 10022 - 10076 - 10083 - 10084 - 10085

> **VGA/BNC Adaptor Cables from 1.8m / 6ft to 3m / 10ft:**
Ref. 10023 - 10024 - 10025 - 10026

> **BNC Cables from 1,8m / 6ft to 20m / 66ft:**
Ref. 10038 - 10039 - 10096 - 10098 - 10100

> **DVI Cables from** 1.8m / 6ft to **70m** / **230 ft** - See all ref. page 122

> **BNC SDI-HD M/M Cables from 3m / 10ft to 30m / 100ft M/M:**
Ref. 10135 - 10136 - 10137 - 10138 - 10139 - 10140 - 10141



Trident DVI & Tri-DVI Splitter

Trident DVI™ — **Model.** DVI213

Tri-DVI Splitter™ — **Model.** DVI103

- Trident DVI: Dual Channel Tri DVI Splitter
- Tri-DVI Splitter: 1 Input to 3 Output DVI Distribution Amplifier
- For AV Pro Presentation Environment
- Built-In Universal Power Supply
- LED for Input Signal Detection and Output Load

Trident DVI™ and Tri-DVI Splitter™

by **Analog Way** are a **Digital Distribution Amplifier: DVI213** with 2 channels {1 input to 3 outputs} for DVI-D signals and **DVI103** with 1 channel {1 input to 3 outputs} for DVI-D signals. Both designed for and compatible with the *iX* Range, they will secure your complete installation.

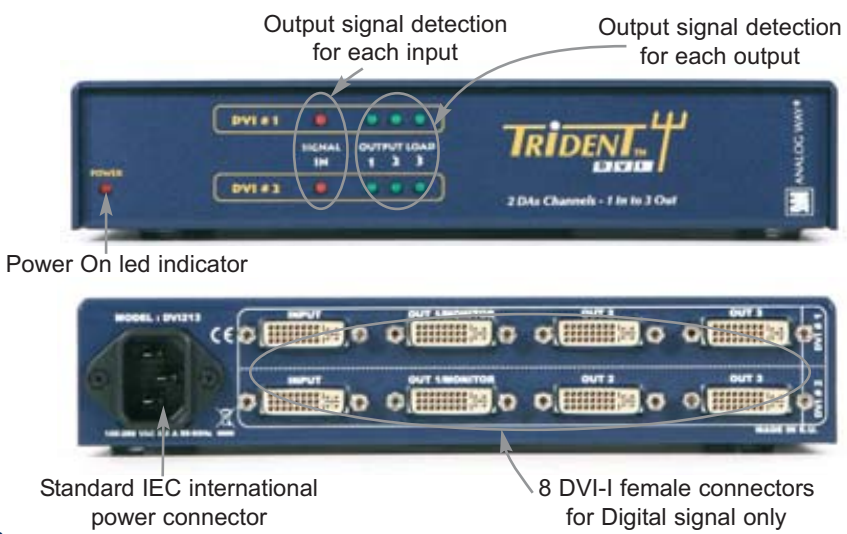
Trident DVI and **Tri-DVI Splitter** will considerably accelerate the set up time of multi-*iX* products configuration especially in case of multi-screen applications with or without Edge Blending, as it completely eliminates the use of any matrix switching and control.

Trident DVI and **Tri-DVI Splitter** distribute and amplifies any DVI digital source, from an HD camera, DVD player, PC, workstation, digital video player, etc...

Features

- 2 DVI-D re-clocked channels for Trident DVI and 1DVI-D channel for Tri-DVI Splitter up to 1600x1200@60Hz
- I/O detect LED indicators on front panel
- Perfect fit with *iX*, **Octo Vue** and **Octo²** families for multi-screen applications
- Universal internal power supply

Tri-DVI Splitter



Technical Specifications

DVI Channels x 2 for DVI213 and DVI Channel x 1 for DVI103
- 1 input to 3 outputs
- DVI-I female connectors for digital signal only
- Up to 1600x1200@60Hz-1920x1200@60Hz Red. Blanking
- Support HDTV Formats: 1080i/p, 720p.
- DVI-D TMDS Single Link - 165MHz reclocked
- DDC2 loopthrough on output 1

User Controls and Connectors

FRONT PANEL
- Power On LED indicator
- Input signal detected LED indicator for each input
- Output load LED indicator for each output

REAR PANEL
- 8 x DVI-I female connectors for digital signal only on Trident DVI
- 4 x DVI-I female connectors for digital signal only on Tri-DVI Splitter

Dimensions: 1/2 19" rack case compatible, 1 unit
P 7,5" x L 8,7" x H 1,70"
P 190mm x L 221mm x H 43mm

Weight: 1 kg (2.2 lbs)

Power Supply
Internal, universal, automatic, 100/250VAC, 50/60 Hz, 20 W

Supplied with
- 1 x Power cable
- 1 x User manual

Warranty
3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

References

> **DVI213:** Trident DVI™
> **DVI103:** Tri-DVI Splitter™

Option

> **OPT-RMK2:** Optional rack mounting kit (allows mounting of 2 Trident in 1U, 19" rack)

Cables for Trident DVI & Tri-DVI Splitter

> **DVI Cables** from 1.8m / 6ft to **70m** / **230ft** - See details page 122

DVI Cables ™

Active DVI-D Cable up to 70m/230ft

New!

- Active DVI Copper Cable up to 230ft/70m
- Embedded Equalizer and self powered
- High definition up to 1080p@60Hz & 1600x1200@60Hz

Specifications

• **Signals**: Digital Interface - TMDS
• **Input / Output**: DVI-D / DVI- D
• **Application**: Connection between Computer sources and Digital displays
• **Supplied with**: 1 x DVI-D M/M Cable of 1.8m/6ft (Ref. 11000)
• Powerful embedded Equalizer:
- Resolution up to UXGA/60Hz and 1080p/60Hz
- Max pixel rate: 165MHz
- Compatible with DDC2 and HDCP
• **Option**: External power 5V - 300mA

References

E70DVI	-	DVI-D M/F Cable - 70m / 230ft - 9kg / 20 lbs
E60DVI	-	DVI-D M/F Cable - 60m / 200ft - 7.7kg / 17 lbs
E50DVI	-	DVI-D M/F Cable - 50m / 165ft - 6.4kg / 14 lbs
E40DVI	-	DVI-D M/F Cable - 40m / 130ft - 5.5kg / 11.4 lbs
E30DVI	-	DVI-D M/F Cable - 30m / 100ft - 3.9kg / 8.6 lbs
E20DVI	-	DVI-D M/F Cable - 20m / 65ft - 2.7kg / 6 lbs
E15DVI	-	DVI-D M/F Cable - 15m / 50ft - 2kg / 4.4 lbs
E10DVI	-	DVI-D M/F Cable - 10m / 33ft - 1.4kg / 3 lbs

Option

12030: 100/250VAC 5V - 1A Universal external power supply

Ref. E70DVI

DVI-D Cable up to 10m/33ft

> Copper DVI Cable up to 10m/33ft

Specifications

• **Signals**: Digital Interface - TMDS
• **Input / Output**: DVI-D / DVI- D
• **Application**: Connection between Computer and Digital displays
• Connectors Male / Male

References

11006	-	DVI-D M/M Cable - 10m / 33ft
11005	-	DVI-D M/M Cable - 5m / 16ft
11004	-	DVI-D M/M Cable - 3m / 10ft
11000	-	DVI-D M/M Cable - 1.8m / 6ft

Ref. 11000

Product Comparison: Analog Way Interfaces*

	UB 813	SPI 400	EQZ 450	XD 213	QVB 104	DVB 102	DVS
Distribution Amplifier	✓			✓	✓	✓	✓
SD/HD-SDI Signal (w/Re-clocking)				✓			
Equalizer		✓	✓				
Sync. Conversion			✓				
# of Input Channels	8	1	1	2	1	1	1
# of Outputs per channel	3	2	2	3	4	2	2
# of Channels on HD15 Connector	4	1	1		1	1	1
# of Channels on 5 x BNC Connectors	4	1	1				
# of Channels on 1 x BNC Connector				2			
Universal Analog Input Signal	✓	✓	✓		✓	✓	✓
Rack Compatible	19"-3U	1/2 19"-1U	1/2 19"-1U	1/2 19"-1U	1/3 19"-1U	1/3 19"-1U	

* also see the DVI Interfaces page 106

Universal Booster

p. 112

> Multiway Universal Analog Distribution Amplifier, 300 MHz Bandwidth
> 8 Channels of 1 Input to 3 Buffered Outputs
> Distributes simultaneously sources to any Switcher of the iX, Octo Vue and Octo^2 and Quattro Ranges
> Composite, Y/C, YUV, RGB Video, HD-YUV and RGB HV Computer

Sync Processor

New!

p. 114

> Automatic Detection of Input Sync
> 2 independent outputs and selection of the output sync type
> 400 MHz Bandwidth
> Embedded cable correction function
> 1/2 Rack mountable, internal universal power supply

Equalizer

New!

p. 115

> Universal Booster with Hi-Res cable equalization on up to 300m/1000ft
> For High Resolution signals up to 1600x1200, TV and HDTV
> 450 MHz Bandwidth
> 1/2 Rack mountable, internal universal power supply

Trident SD/HD-SDI

p. 116

> Dual HD-SDI/SDI 1 to 3 Distribution Amplifier
> SD/HD-SDI up to 1080i/sF/p
> i/o detection on front panel LEDs
> 1/2 Rack mountable, internal universal power supply

Quad Versatile Booster

p. 117

> High Speed Distribution Amplifier, 450 MHz bandwidth
> 1 Input to 4 Outputs
> Built-In Universal Power Supply
> 1/3 Rack mountable

Dual Versatile Booster

p. 118

> High Speed Distribution Amplifier, 450 MHz Bandwidth
> 1 Input to 2 Outputs
> Built-In Universal Power Supply
> 1/3 Rack mountable

Dual VGA Splitter

p. 119

> Dual VGA Output Distribution Amplifier for PC
> 1 PC input to 2 outputs
> 200MHz Bandwidth, metal enclosure
> External power supply

Universal Booster™

Universal Booster™ _____ **Model.** UB813

- Multiway Universal Analog Distribution Amplifier
- 8 Channels of 1 Input to 3 Amplified Outputs
- PC, Mac, TV, HDTV
- For AV Pro Presentations and Broadcast
- Distributes simultaneously sources to any Switcher of the *iX*, Octo Vue and and Octo^2 Ranges

Power Led

4 channels of 1 input to 3 outputs,
RGB HV on HD15-F connectors

4 channels of 1 input to 3 outputs,
RGB HV on BNC connectors

Features

- 8 DAs: 4 with BNC and 4 with HD15
- 8 Inputs: TV, HDTV, PC, Mac, Workstation
- 8 x 3 boosted outputs
- Bandwidth 300 MHz
- Compact enclosure, 3U

Technical Specifications

Inputs
- 4 x 5 BNC female connectors
- 4 x HD15 female connectors
- YUV, RGB HV, RGB/S, RGsB, Y/C, Composite, HDYUV, HDRGB compatible
- Line frequency: 15 kHz up to 130 kHz
- Frame frequency: 24 Hz up to 130 Hz
- Bandwidth: 300 MHz (-3dB)
- Signals: RGB / YUV: 0.7Vp/p up to 1 Vp/p
- H sync and Composite sync: 0.3 Vp/p up to 2 Vp/p
- 2 and 3 levels sync (HD) compatible
- V sync: TTL amplified

Outputs
- 8 x 3 separate and buffered outputs (4x3x5 BNC female connectors and 4x3 HD15 female connectors)
- Output format and output sync are of the same boosted type as corresponding input (except vertical sync which is boosted in digital TTL type)

User Controls

REAR PANEL
- On/Off power switch
- Hi-Z/75 Ohms: Hi-Z or 75 Ohms terminating switch for each H / Comp sync input

Power Supply
- Internal, universal, automatic 100/250VAC, 50/60 Hz, 40W

Supplied with
- 1 x Power cable
- 1 x User manual

Dimensions: 19" compatible, 3 units
- D 9.45" x W 19" x H 5.25"
- D 240 mm x W 482 mm x H 133 mm

Weight: 4.5 kg (9.9 lbs)

Warranty

3 year warranty on parts and labor back to factory

Specifications subject to change without prior notice

Universal Booster™ by Analog Way

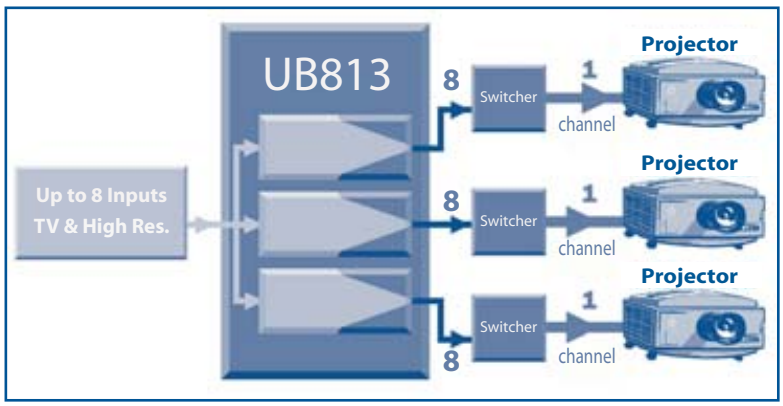
is a **Multiway Distribution Amplifier with 8 channels of 1 input to 3 outputs** for RGB HV, RGB/S, RGsB or YUV signals as well as Video Composite, Y/C and HDTV (HD-YUV, HD-RGB).

Each of the 8 independent inputs is split into 3 separate buffered and amplified outputs. This is the equivalent of integrating, in the same enclosure, 8 different 1 in / 3 out DAs. It saves space while reducing the cost of using several power supplies.

Universal Booster offers 4 channels equipped with BNC connectors and 4 channels equipped with HD15. This makes it particularly convenient to distribute sources when presenting a multi-screen event with up to 3 **Di-VentiX**, **EventiX, CentriX, NatiX** or any other switcher.

Universal Booster offers a 300 MHz bandwidth for signal transparency.

Note: **iX Mate** is the perfect addition to the **Universal Booster** in case of HD/SD-SDI or DVI sources.



Cables for Universal Booster

> **BNC Cables from 1.8m / 6ft to 20m / 66ft:**
Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **VGA Cables from 0.4m / 1ft to 1.8m / 6ft M/F and M/M:**
Ref. 10014 - 10015 - 10077
> **VGA/BNC Adapator Cables from 1.8m / 6ft and 3m / 10ft:**
Ref. 10023 - 10024 - 10025 - 10026

Reference

> **UB813:** Universal Booster™

Sync Processor™

Sync Processor™ New! Model. SPI400

- Automatic Detection of Input Synchronization Signal
- SOG, Composite or H and V Output Synchronization
- 2 Independent Outputs

Sync Processor™ by Analog Way is an Interface which automatically adapts the Computer signals to the monitors, screens, projectors and other Video display devices requirements. It can handle most input formats and synchronizations (RGsB, RGB/S, RGB HV).

Sync Processor features automatic detection of the input synchronization signal, and converts it to SOG, HV Composite or separate H and V. The synchronization type of signal can be independently set on each of the two outputs.

Sync Processor is also a **Booster / Equalizer**, a High Resolution Video signal (on BNC) can be driven on a BNC output up to 300m/1000ft*.

Features

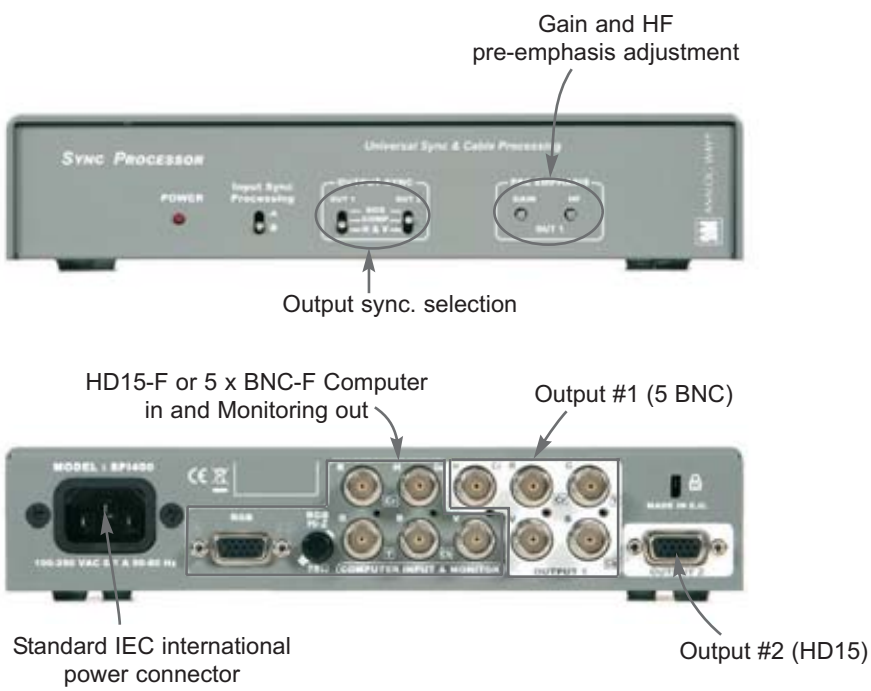
- 400 MHz bandwidth
- High quality cable loss compensation
- Universal automatic input sync processing
- Universal built-in power supply

Reference

> **SPI400:** Sync Processor™

Cables for Sync Processor

> **BNC Cables from 1.8m / 6ft to 20m / 66ft**: Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **VGA Cables from 0.4m / 1ft to 1.8m / 6ft M/F and M/M:** Ref. 10014 - 10015 - 10077
> **VGA/BNC Adaptor Cables from 1.8m / 6ft to 3m / 10ft:** Ref. 10023 - 10024 - 10025 - 10026



Technical Specifications

- PC, Mac (up to 1600x1200) compatible
- 400 MHz RGB Video bandwidth
- Automatic input sync detection
- Cable loss compensation up to 300 m - 1000 ft
- 2 x Outputs RGB HV, RGBS, RGsB including one with equalizer
- 1 x Loopthrough output for local monitoring

Inputs
- 15 kHz to 135 kHz: Horizontal line frequency
- 24 Hz to 120 Hz: Frame frequency
- RGsB, RGBS, RGB HV (0.7 V analog for RGB)
- Composite sync from 0.3 to 5 V ; H & V (sync.) 5V TTL

Outputs
- Local monitoring of input source, loopthrough (HD15F or BNC connector)

User Controls and Connectors

FRONT PANEL
- Power LED
- Selection of SOG, C. Sync or H/V Sync Output
- 2 x Trimmers for gain and HF pre-emphasis adjustment
- Switch for input sync processing

REAR PANEL
- Hi.Z/75 Ohms: RGB input adaptation
- 1 x HD15-F or 5 x BNC-F Computer In and Monitoring out
- 5 BNC-F: Output #1
- 1 HD15-F: Output #2

Power Supply
Internal, universal, automatic, 100-240 VAC, 50-60Hz, 5W

Supplied with
- 1 x AC power cable
- 1 x User manual

Dimensions: 1/2 19" rack case compatible, 1 Unit
- D 7.6" x W 8.7" x 1.7"
- D 192 mm x W 221 mm x H 43mm

Weight: 1kg / 2.2 lbs

Warranty
3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

Equalizer™

Equalizer™ New! **Model.** EQZ450

- Universal Interface with Cable Compensation
- For Every Long Distance Applications up to 300m/1000 ft
- For High Resolution Signals up to 1600 x 1200, TV and HDTV

Technical Specifications

• Workstation, PC, Mac (up to 1600x1200) & standard Video compatible
• 450 MHz RGB Video bandwidth
• Cable loss compensation up to 300 m - 1000 ft
• 1 x Output with loopthrough for local monitoring
• 1 x Equalized output

Inputs
• 15 kHz to 135 kHz: Horizontal line frequency
• 24 Hz to 120 Hz: Frame frequency
• RGsB, YUV, RGBS, RGB HV (0.7 V analog for RGB) HD-YUV
• Composite sync from 0.3 to 5 V ; H & V (sync.) 5V TTL

Outputs
• Local monitoring of input source
• Output (equalized) with adjustable cable length corrector up to 300 m - 1000 ft
Note: Component output only if Component in input

User Controls and Connectors
FRONT PANEL
• Power LED
• 2 x trimmers for gain and HF pre-emphasis adjustment
REAR PANEL
• Hi.Z/75 Ohms: RGB input adaptation
• 1 x HD15-F or 5 x BNC-F Computer In and Monitoring out
• 1 x HD15-F and 5 x BNC-F simultaneous output

Power Supply
Internal, universal, automatic, 100-240 VAC, 50-60Hz, 10W

Supplied with
• 1 x AC power cable
• 1 x User manual

Dimensions: 1/2 19" rack case compatible, 1 Unit
• D 7.6" x W 8.7" x 1.7"
• D 192 mm x W 221 mm x H 43mm

Weight: 1 kg / 2.2 lbs

Warranty
3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

Equalizer™ by **Analog Way** is an **Interface to drive Computer or Video signals over long distance cables** to monitors, screens, projectors and other Video display devices. It can handle any kind of input format and synchronization (RGsB, RGB/S, Component, YUV-HD, RGB HV).

Equalizer features a powerful **Booster / Equalizer** function. The very High Resolution Video signal (Computer, SD or HD) can be driven on up to 300m/1000ft.

A High grade compensation cable function, offers a continuous tuning to precisely fit the cable length and quality. It enables to obtain the best quality picture possible (sharpness and echo free) to your application, providing a clearer, brighter and more contrasted image.

Equalizer also features an RGB HV input on BNC or HD15F with loop monitoring. The equalized output is available on both of the BNC and HD15 outputs..

Features

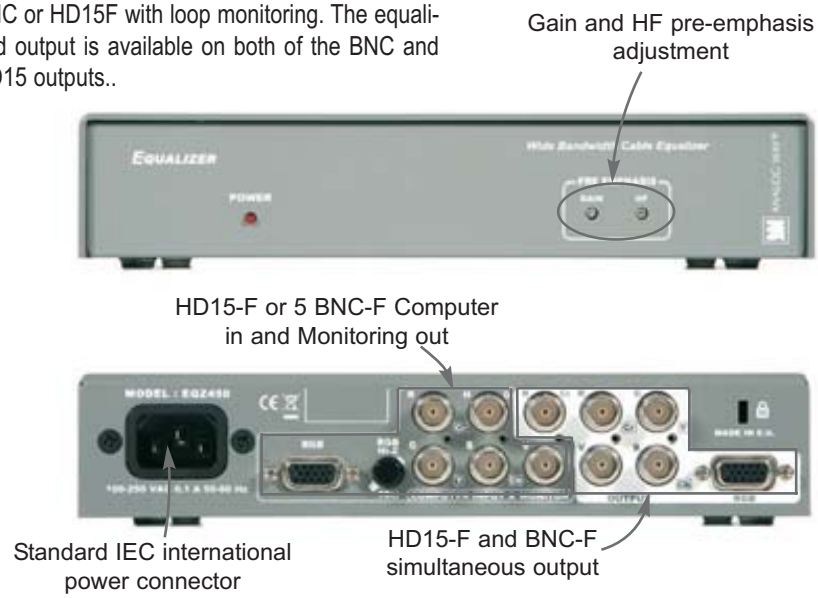
• 450 MHz bandwidth
• High quality cable loss compensation
• Continuous cable length adjustment
• Built-in universal power supply

Reference

> **EQZ450:** Equalizer™

Cables for Equalizer

> **BNC Cables from 1.8m / 6ft to 20m / 66ft**: Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **VGA Cables from 0.4m / 1ft to 1.8m / 6ft M/F and M/M:** Ref. 10014 - 10015 - 10077
> **VGA/BNC Adaptor Cables from 1.8m / 6ft to 3m / 10ft:** Ref. 10023 - 10024 - 10025 - 10026



Trident SD HD-SDI™

Trident SD HD-SDI™

Model. XD213

- Dual Digital Video Distribution Amplifier
- 2 Channels of: 1 Input to 3 Amplified Outputs
- For Broadcast Environment and AV Pro Presentation
- Universal Built-in Power Supply
- Front Panel LED Indicators

Trident SD HD-SDI™ by Analog Way is a Dual Digital Distribution Amplifier with 2 x {1 input to 3 outputs} for SD-SDI and HD-SDI signals. Designed for and compatible with the iX Range, Trident SDI will secure your complete installation.

Trident SDI will considerably reduce the set up time of a configuration especially in the Broadcast and Rental and Staging environments.

Trident SDI distributes and amplifies SDI and HD-SDI signals without any adjustment or specific set up.

Each DA offers the latest technology: Full re-synchronization of SD/HD-SDI signals.

Front panel LED indicators will help to rapidly identify input signal presence and equipment output connection.

Features

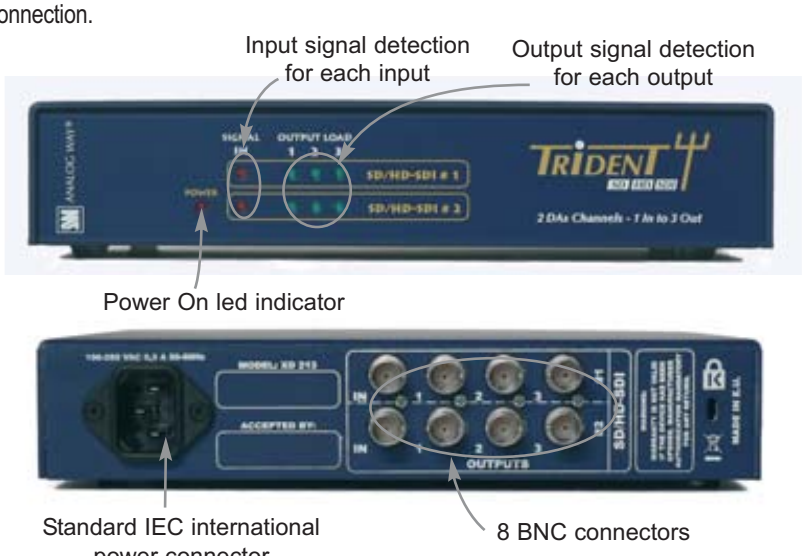
- 2 SD/HD-SDI channels with cable Equalizer and re-clocking
- I/O LED indicators on front panel
- Perfect fit with iX family for multiscreen applications
- Internal power supply

Reference

XD213: Trident SD HD-SDI™

Option

OPT-RMK2: Optional rack mounting kit (allows mounting of 2 Trident in 1U 19" rack)



Technical Specifications

SD/HD-SDI Channels x 2
Each channel is:
- 1 input to 3 outputs
- BNC connectors
- Format: TV 525i, 625i – HDTV 1080i/p/sF, 720p
- Digital YUV – 4:2:2 – 10 bits
- 270MHz / 1.5GHz
- Equalized & re-clocked

Use Controls and Connectors
FRONT PANEL
- Power On LED indicator
- Input signal detected LED indicator for each input
- Output load LED indicator for each output

REAR PANEL
- 8 x BNC connectors (2 x inputs, 6x outputs)

Power Supply
Internal, universal, automatic, 100/250VAC, 50/60 Hz, 20 W

Supplied with
- 1 x Power cable
- 1 x User manual

Dimensions: 1/2 19" rack case compatible, 1 unit
- D 7.5" x W 8.7" x H 1.70"
- D 190 mm x W 221 mm x H 43 mm

Weight: 1.0 kg (2.2 lbs)

Warranty
3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

Cables for Trident SD HD-SDI

> **BNC Cables from 1.8m / 6ft to 20m / 66ft**: Ref. 10038 - 10039 - 10096 - 10098 - 10100
> **VGA Cables from 0.4m / 1ft to 1.8m / 6ft M/F and M/M:** Ref. 10014 - 10015 - 10077
> **VGA/BNC Adaptor Cables from 1.8m / 6ft to 3m / 10ft:** Ref. 10023 - 10024 - 10025 - 10026

Quad Versatile Booster™

Quad Versatile Booster™ Model. QVB104

- High Speed Distribution Amplifier
- PC / Mac/ Workstation Input
- 1 Input, 4 Outputs
- For Large Screen Projectors, Video Projection, Conference Rooms, Process Control and Industrial Environment

Technical Specifications

Input
- Signals from PC (VGA or UXGA), Mac and Workstation
- RGsB, RGBS, RGBHV, (RGB 0.7V Analog)
- Sync: (Hi-z), Composite 5V TTL, HV 5V TTL
- Line frequency from 15 kHz to 150 kHz
- Frame frequency from 40 Hz to 170 Hz
- Video bandwidth > 450 MHz
- Slew rate > 2000 V/µ sec
- Connector: 15 pin HD female

Outputs
- 4 separate and buffered outputs: RGsB, RGBS, RGBHV
- RGB: 0.7V p/p: Composite and H & V Sync: 5V TTL boosted
- Impedance: RGB = 75 Ohms
- Connectors: 15 pin HD female

Power Supply
Internal, universal, automatic, 100-250 VAC, 50/60Hz, 5W

Supplied with
- 1 x AC power cable
- 1 x User manual

Dimensions: 1/3 19" rack case compatible, 1 Unit
- D 4.7" x W 5.8" x H 1.70"
- D 120mm x W 147mm x H 43mm

Weight: 0.6kg / 1.3 lbs

Warranty
3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

Quad Versatile Booster™

by **Analog Way** comes with 4 output channels for High-Resolution Computer signal driving.

All outputs are buffered. Using high speed amplifiers, any graphic board signal coming from a PC, Mac or Workstation can be transmitted over a long distance.

An RGB channel can be used for TV or HDTV (Composite, Y/C, YUV, RGB) with HD15 to BNC-F breakout cable.

Thanks to its adapted size, up to 3 **Quad Versatile Booster** can be mounted on an optional **Analog Way** rack shelf for improved integration.

Features
- 450 MHz bandwidth
- Built-in universal power supply
- Ultra Compact metal enclosure
- 1/3 19" Rack

Reference

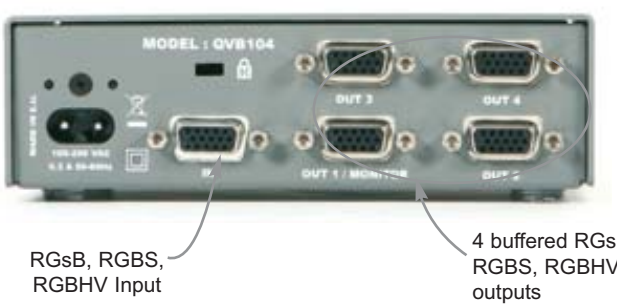
> **QVB104:** Quad Versatile Booster™

Option

OPT-RMK2: Optional rack mounting kit (allows mounting of 2 Trident in 1U 19" rack)

Cables for Quad Versatile Booster

> **VGA Cables from 0.4m / 1ft to 1.8m / 6ft M/F and M/M:** Ref. 10014 - 10015 - 10077
> **Multicoax Extension Cables VGA from 3m / 10ft to 30m / 100ft (M/M and M/F):** Ref. 10016 - 10017 - 10018 - 10019 - 10073 - 10074 - 10075 - 10021 - 10022 - 10076 - 10083 - 10084 - 10085
> **VGA/BNC Adaptator Cable from 1.8m / 6ft to 3m / 10ft:** Ref. 10023 - 10024 - 10025 - 10026
> **VGA/S.Video Adaptator Cable of 0.2m / 1ft:** Ref. 10124



Dual Versatile Booster™

Dual Versatile Booster™

Model. DVB102

- High Speed Distribution Amplifier
- PC/Mac/Workstation Input
- 1 Input, 2 Outputs
- For Large Screen Projectors, Video Projection, Conference Room, Process Control, Industrial Environment

Dual Versatile Booster™

by **Analog Way** comes with 2 output channels for High Resolution Computer signal driving.

All outputs are buffered. Using high speed amplifiers, any graphic card signals can be transmitted over a long distance.

RGB channels can be used for TV or HDTV (Composite, Y/C, YUV, RGB) using HD15 to BNC-F breakout cable.

Thanks to its adapted size, up to 3 **Dual Versatile Booster** can be mounted on an optional **Analog Way** rack shelf for improved integration.

Features

- 450 MHz bandwidth
- Metal enclosure
- Ultra-compact
- Internal universal power supply
- 1/3 19" rack

Reference

> **DVB102:** Dual Versatile Booster™

Option

> **OPT-RMK2**: Optional rack mounting kit (allows mounting of 3 DVB102 or QVB104 in 1U 19" rack)

> **10123**: HD15-F/ 5 x BNC-F breakout cable
> **10124**: HD15-F/Mini DIN 4-F, 1ft adapter cable

Power led indicator

RGsB, RGBS, RGBHV input

2 buffered RGsB, RGBS, RGBHV outputs

Technical Specifications

Input
- Signals from PC (VGA to UXGA), Mac, Workstation
- RGsB, RGB S, RGBHV, (RGB 0.7V Analog)
- Sync: (Hi-Z), Composite 5V TTL, HV 5V TTL
- Line frequency from 15 kHz to 150 kHz
- Frame frequency from 40 Hz to 170 Hz
- Video Bandwidth > 450MHz
- Slew rate > 2000 V/µ sec
- Connector: 15 Pin HD female

Outputs
- 2 separate and buffered outputs: RGsB, RGBS, RGBHV
- RGB: 0.7V p/p: Composite and H&V Sync.: 5V TTL boosted
- Impedance: RGB = 75 Ohms
- Connectors: 15 pin HD female

Power Supply
Internal, universal, automatic, 100-250 VAC, 50/60Hz, 5W

Supplied with
- 1 x AC power cable
- 1 x User manual

Dimensions: 1/3 19" rack case
- D 4.7" x W 5.8" x H 1.7"
- D 120mm x W 147 mm x H 43 mm

Weight: 0.6 kg / 1.3 lbs

Warranty
3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

Cables for Dual Versatile Booster

> **VGA Cables from 0.4m / 1ft to 1.8m / 6ft M/F and M/M:** Ref. 10014 - 10015 - 10077
> **VGA Multicoax Extension Cables from 3m / 10ft to 30m / 100ft (M/M and M/F):** Ref. 10016 - 10017 - 10018 - 10019 - 10073 - 10074 - 10075 - 10021 - 10022 - 10076 - 10083 - 10084 - 10085
> **VGA/BNC Adaptator Cables from 1.8m / 6ft to 3m / 10ft:** Refs 10023 - 10024 - 10025 - 10026
> **VGA/S.Video Adaptator Cable of 0.2m / 1ft:** Ref 10124

Dual VGA Splitter™

Dual VGA Splitter™

Model. DVS

- PC Distribution Amplifier
- For Video Projection, RGB Monitoring, Conference Rooms, Process Control, Industrial Environment

Technical Specifications

Input
- Signals from any PC (VGA to UXGA)
- RGB S, RGBHV, (RGB 0.7V Analog - 75 Ohms)
- Sync : Composite, 5V TTL - H & V separated, 5VTTL / Hi. Z
- Line frequency from 15 kHz to 95 kHz
- Frame frequency from 40 Hz to 150 Hz
- Video bandwidth: 200MHz
- Connector: 15 Pin HD male

Outputs
- 2 separate and buffered outputs: RGBS, RGBHV
- RGB: 0.7V p/p: Composite and H & V Sync: 5V TTL boosted
- Impedance: RGB = 75 Ohms
- Connectors: 15 pin HD female

Power Supply

Internal, universal, automatic, 100-250 VAC, 50/60Hz, 5W

Supplied with
- 1 x AC power cable
- 1 x User manual

Dimensions
- D 2.87" x W 4.76" x H1.7"
- D 73 mm x W 121 mm x H 43 mm

Weight: 0.7 kg / 1.54 lbs

Warranty

3 year warranty on parts and labor, back to factory

Specifications subject to change without prior notice

Dual VGA Splitter™ by Analog Way displays Computer and Video signals on up to 2 monitors. The same image can be displayed on 2 screens of different types (e.i. 1 video projector and 1 monitor).

The splitter provides a fast and flexible solution for presentations, test bench facilities or RGB distribution such as remote monitoring, education facilities, etc...

Features

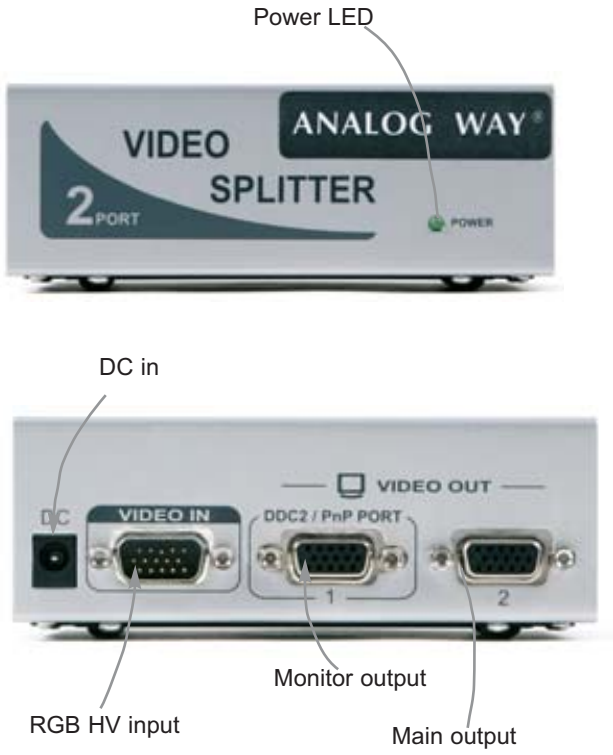
- Ultra low cost
- Metal enclosure
- Very compact

Reference

> **DVS:** Dual VGA Splitter™

Cables for Dual VGA Splitter

> **VGA Multicoax Extension Cables from 3m / 10ft to 30m / 100ft (M/M and M/F)**: Ref. 10016 - 10017 - 10018 - 10019 - 10073 - 10074 - 10075 - 10021 - 10022 - 10076 - 10083 - 10084 - 10085



Video & Audio Cables

BNC SDI-HD/SDI CABLE

Coaxial SDI and HD-SDI Cable

- **Signal**: 270 Mbits to 1.5 Gbits/s
- **Input / Output**: BNC Male Connectors 75 Ohms High Quality
- **Application**: Connection of SDI or HD-SDI sources and displays when using the iX and VIO ranges.

Lenght	3m / 10ft	6m / 20ft	8m / 26ft	10m / 33ft	15m / 50ft	20m / 65	30m / 100ft
Code	10135	10136	10137	10138	10139	10140	10141

BNC CABLE

MULTICOAX 75 OHMS CABLE - 5BNC / 5BNC (BNC M / BNC M)

- **Signal**: R Gs B. / R. G. B. S / R. G. B. H & V / RsGsBs
- **Input / Output**: BNC Male 75 Ohms Connectors
- **Application**: Connection between a High Resolution Monitor / Booster / Switcher / Line Doubler, Scan Converter and all other Computer & Video Application. Custom Made Length, please see HQVGA cable.

Lenght	1.8m / 6ft	3m / 10ft	6m / 20ft	10m / 33ft	20m / 66ft
Code	10038	10039	10096	10098	10100

S-VIDEO CABLE

BI-COAXIAL S-VIDEO CABLE - S-VIDEO (Y/C) CABLE (MINI DIN 4) (M/M)

- **Signal**: Y/C
- **Input / Output**: Connectors 4 Pin Mini DIN
- **Application**: Connection of a Scan Converter, TV, Camcorder and all other S-Video Connections. Custom Made Length, please see HQ Y/C cable.

Lenght	1.8m / 6ft	5m / 16ft	10m / 33ft	20m / 66ft
Code	10009	10093	10094	10095

S-VIDEO TO BNC CABLE (BI-COAXIAL) - S-VIDEO (Y/C) TO 2 BNC CABLE (M/M)

- **Input / Output**: 4 Pin Mini DIN Connector and BNC 75 Ohms Connectors
- **Application**: Used with Octo Series, iX line and all other S.Video and BNC connections. Custom Made Length, please see HQ Y/C cable.

Lenght	1.8m / 6ft	5m / 16ft
Code	10102	10103

CABLE RCA

COAXIAL CABLE FOR VIDEO & AUDIO APPLICATION - RCA (CINCH) CABLE 1.2m / 4 ft (RCA M/M)

- **Signal**: Composite Video or Audio
- **Input / Output**: RCA Male / RCA Male
- **Application**: Video TV / VCR /Scan Converters Connections, Audio, ... or all other devices with an RCA connection

Lenght	1.2m / 4ft
Code	10010

RCA/BNC ADAPTER - RCA (CINCH) TO BNC ADAPTER (RCA F / BNC M)

- **Signal**: Composite Video / R / G / B / Sync (75 Ohms)
- **Input**: Female RCA

Code	10011

JACK STEREO CABLE

AUDIO STEREO CABLE (SHIELDED) - AUDIO STEREO JACK 3.5 CABLE 1.2m / 4ft (JACK M / JACK M)

- **Signal**: Audio Stereo
- **Input / Output**: Stereo JACK 3.5 Male
- **Application**: Audio Connection for all devices with an Audio 3.5 JACK

Lenght	1.2m / 4ft
Code	10012

AUDIO STEREO CABLE - AUDIO RCA TO STEREO JACK 3.5 1.2m / 4 ft (2 x RCA M / JACK M)

- **Signal**: Audio Stereo
- **Input / Output**: Left RCA + Right RCA / Stereo JACK 3.5 Male
- **Application**: Sound Connection for a Scan-Converter, Line Doubler, TV, ...

Lenght	1.2m / 4ft
Code	10013

SCART CABLE

MULTICOAX SCART CABLE, CROSS - MULTICOAX SCART STEREO CABLE (M/M)

- **Signal**: Composite Video, R. G. B. S, Fast / Slow Commutation, Stereo Sound
- **Input / Output**: SCART / SCART
- **Application**: TV / VCR Connections, Scan Converters Outputs, etc... Custom Made Length, please see PERHQRGB..

Lenght	1.5m / 5ft	6m / 20ft	8m / 26ft	10m / 33ft	20m / 66ft
Code	10000	10001	10002	10003	10004

MULTICOAX «VIDEO IN», SCART CABLE, NOT REVERSIBLE - RCA + JACK (M+M) TO SCART (M) CABLE 2.8m / 9 ft (VIDEO IN)

- **Signal**: Composite Video + Stereo Sound
- **Input**: RCA (Composite Video) + 3.5 JACK (Stereo Sound)
- **Output**: SCART (Composite Video + Stereo Sound)
- **Application**: Output of Scan Converters, or all other device with Composite Video and Sound Outputs

Lenght	2.8m / 9ft
Code	10005

MULTICOAX «VIDEO OUT» SCART CABLE, NOT REVERSIBLE - (SCART (M) TO RCA + JACK (M+M) CABLE 2.8m /9 ft (VIDEO OUT)

- **Signal**: Composite Video + Stereo Sound
- **Input**: SCART (Composite Video + Stereo Sound)
- **Output**: RCA (Composite Video) + 3.5 JACK (Stereo Sound)
- **Application**: TV / VCR Connection to a Line Doubler or all other device with an RCA Composite Video Input

Lenght	2.8m / 9ft
Code	10006

MULTICOAX «PIN 20» SCART CABLE, NOT REVERSIBLE - 4 BNC TO SCART CABLE 3m / 10 ft (PIN 20)

- **Signal**: R. G. B. S (Composite Video) in PIN 20
- **Input**: 4 BNC Connectors, R. G. B. S (Composite Video)
- **Output**: SCART
- **Application**: Distribution Amplifier, TV, VCR Connection or all other device with a SCART Video Output

Lenght	3m / 10ft
Code	10007

MULTICOAX «PIN 10» SCART CABLE, NOT REVERSIBLE - SCART TO 4 BNC CABLE 1.5m / 5 ft (PIN 10)

- **Signal**: R. G. B. S (TTL Sync) in PIN 10
- **Input**: SCART
- **Output**: 4 BNC Connectors, R. G. B. S (TTL)
- **Application**: Specially dedicated to connect the SCART Connector Output of the ANALOG WAY Scan Converters to the Video devices (Video-projectors) that need to receive a TTL level Sync.

Lenght	1.5m / 5ft
Code	10008

VGA & Computer Cables

DVI ADAPTOR CABLE

DVI CABLE - SINGLE LINK DVI-D CABLE
- **Signal** : Digital Interface - TMDS
- **Input/Output** : DVI-D male / DVI-D male
- **Application** : Computer sources and Digital displays up to 70m/230ft

Lenght	1.8m / 6ft	3m / 10ft	5m / 16ft	10m / 33ft
Code	11000	11004	11005	11006

Lenght	10m / 33ft	15m / 50ft	20m / 65ft	30m / 100ft	40m / 130ft	50m / 165ft	60m / 200ft	70m / 230ft
Code	E10DVI	E150DVI	E20DVI	E30DVI	E40DVI	E50DVI	E60DVI	E70DVI
Weight	1.4kg/3lbs	2kg/4.4lbs	2.7kg/6lbs	3.9kg/8.6lbs	5.2kg/11.4lbs	6.4kg/14lbs	7.7kg/17lbs	9kg/20lbs

DVI/HD15 ADAPTOR - DVI-A male to HD15 female Adaptator
- **Input**: Male DVI-A (analog + DDC)
- **Output**: HD15 female
- **Application**: Transforms a DVI-I connector into an HD15-F (VGA) connector for RVB HV analog installations or universal inputs

Code	11003

BNC CABLE Multicoax 75 Ohms cable, please see the Video Cables section

VGA CABLE

VGA CABLE - MULTICOAX STD VGA CABLE (HD15 / HD15)
- **Signal**: VGA, S.VGA, XGA (RGBHV, RGBS, RGB), Identification Bits (ID), all Pins wired except Pin 9
- **Input/Output**: HD15 / HD15
- **Application**: Computer to VGA or Multisync Monitor Connection

Lenght		0.4m / 1ft	1.8m / 6ft
Code	Male/Female	10014	10015
	Male/Male		10077

MULTICOAX EXTENSION CABLE, UP TO 30M/100Ft - MULTICOAX STD VGA CABLE (HD15/HD15)
- **Signal**: VGA, S.VGA, XGA (RGBHV, RGBS, RGsB), Identification Bit not connected
- **Input/Output**: HD15 / HD15
- **Application**: Connection of a VGA, S.VGA, XGA equipment with a Booster, Splitter, Monitor (which doesn't need an Identification Bit). Custom Made Length, please see HQVGA Cable

Lenght		3m / 10ft	6m / 20ft	8m / 26ft	10m / 33ft	15m / 50ft	20m / 66ft	30m / 100ft
Code	Male/Female	10016	10017	10018	10019	10073	10074	10075
	Male/Male	10021	10022	-	10076	10083	10084	10085

VGA/BNC CABLE ADAPTER

MULTICOAX CABLE ADAPTER FOR VGA TO BNC CONNECTOR - MULTICOAX VGATO 5 BNC CABLE (HD15 M / BNC M)
MULTICOAX VGATO 5 BNC CABLE (HD15 F / BNC M)
MULTICOAX VGATO 5 BNC cable (HD15M/BNC F)
- **Signal**: VGA (RGBHV, RGBS, RGsB)
- **Input/Output**: HD15 / 5 BNC Connectors
- **Application**: High Resolution Monitors, Boosters, Line Doublers and Down Converters and all other devices equipped with VGA & BNC Connectors

Lenght		0.5m / 2ft	1.8m / 6ft	3m / 10ft
Code	HD15M/BNC M		10023	10024
	HD15F/BNC M		10025	10026
	HD15M/BNC F	10123		

VGA/S.VIDEO CABLE ADAPTER - MULTICOAX VGATO S.VIDEO CABLE
- **Signal**: S.VIDEO (Y/C)
- **Input:** HD15 male
- **Output**: 4 pin mini DIN female
- **Application**: Connection between S.Video source and HD15 universal input

Lenght	0.2m / 1ft
Code	10124

SET OF MULTICOAX SUN® TO VGA MOLDED CABLE ADAPTER - SET OF SUN®/ VGA CABLE ADAPTER 2 x 1.8m/6ft (13W3/HD15)

• **Application** : Connection between a Sun® station [RGBS or RGsB] and its monitor with a Scan Converter, Down Converter or Splitter, Equalizer Interface and other Interfaces

Length	2 x 1.8m / 2 x 6ft
Part Number (1 set)	10087

Long distance and custom made cables

REMOTE CABLE

Multi-Wire Remote Cable - Multi-wire Remote Cable (DB9M/DB9F)

• **Input/Output**: DB9 M/F
• **Specifications**:
- 5 conductors 24AWG
- BELDFOIL® SHIELDED
- (UL) Type CMG; C (UL) Type CMG, AWM Style 2464 80° 300V USE
- External Grey: PVC Jacket
- Outer Dimension: 6mm

• **Application**: Connection between the RS232 port of a remote keypad or control device and all Analog Way device with an RS232 port.

Lenght	0.5m / 1ft	3m / 10ft	5m / 16ft	10m / 33ft	20m / 66ft	30m / 100ft
Code	10109	10110	10111	10112	10113	10114

GENDER CHANGER

MALE / MALE VGA GENDER CHANGER (HD15) - FEMALE / FEMALE VGA GENDER CHANGER (HD15) - MALE / MALE GENDER CHANGER (DB 9) - FEMALE / FEMALE GENDER CHANGER (DB 9)

• **Signal**: All Pins connected
• **Input/Output**: HD15 or DB9

	Male/Male (HD15)	**Female/Female** (HD15)	**Male/Male** (DB9)	**FemaleFemale** (DB9)
Code	10049	10050	10051	10052

1.8m / 6ft US POWER SUPPLY CORD 125 VAC (10A)

POWER SUPPLY CORD 1.8m/6Ft (US)

• **Input**: Type G NEMA 5-15 plug (3 conductors), UL/CSA
• **Output**: Connector (Type C13)
• **Application**: US Power Supply cords for all devices equipped with a male Power Connector

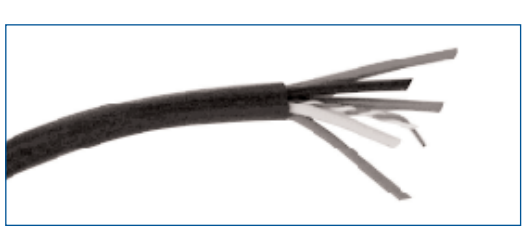
Lenght	1.8m / 6ft
Code	10092

HQ - VGA CABLE

HIGH QUALITY FLAME RESISTANT MULTICOAX CABLE, FOR LONG DISTANCE VIDEO - HIGH QUALITY VGA CABLE

• **Description**: - 5 Coaxial Cables (Red, Green, Blue, Yellow and Black)
- 2 Conductors (0.22 mm^2)
- Safety fire outer Jacket in Black PVC
- Flame Resistant & Fire Resistant Rating C1; Approval NF-C32070 (Tests n°1 & 2) ; CEI 332-1

• **Specifications**: - Impedance 75 Ohms
- Attenuation: 0.45 db / m (at 200 MHz)
- Capacitance: 56 pF / m
- Propagation: 4.5 ns / m
- Resistance: 120 Ohms / km
- Outer Dimension: 11 mm



• **Application**: RGsB, RGB S, RGB HV RsGsBs & Video Long Distance extension cable (Up to 300m/1000 ft)
• **Connection**: One pair of VGA, RCA/BNC, 13w3 or MAC Connectors

Code	RACHQ
Lenght	Custom made
Code	HQVGA

HQ Y/C CABLE

BI-COAXIAL CABLE FOR S.VIDEO - HIGH QUALITY Y/C CABLE

• **Description**: 2 Coaxial (75 Ohms), External Jacket in PVC

• **Application**: TV (VCR), Camcorder Extension cable (up to 50m/160ft)

• **Connection**: One pair of S-VIDEO Connectors (4 PIN MINI DIN)

Part Number	RACHQ
Length	Custom made
Cable Part Number	HQ Y/C

HQ RS CABLE

MULTIWIRE SHIELDED CABLE FOR REMOTE (RS232) - MULTI-WIRE REMOTE CABLE

• **Specifications**: - BELDFOIL® SHIELDED
- (UL) Type CMG; C (UL) Type CMG AWM Style 2464 80° 300V USE
- Grey External PVC Jacket
- Outer Dimension: 6mm

• **Application**: Remote Keypad (up to 100m/300ft), Remote RS232 extension cable

• **Connection**: One pair of 9 Pin DB Connectors

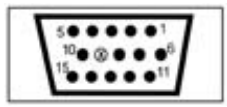
Part Number	RACHQ
Length:	Custom made
Cable Part Number	HQ RS

PIN OUT

VGA

STANDARD VGA

1 - Red
2 - Green
3 - Blue
4 - ID Bit 2
5 - Test (Gnd)
6 - Red Return
7 - Green Return
8 - Blue Return
9 - No Pin
10 - Sync Return
11 - ID Bit 0
12 - ID Bit 1
13 - H Sync
14 - V Sync
15 - ID Bit 3

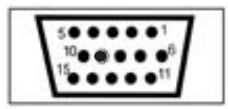


SUB-D HD15 FEMALE CONNECTOR

VESA DDC

Pin

1 - Red
2 - Green
3 - Blue
4 - ID Bit 2
5 - Gnd
6 - Red Return
7 - Green Return
8 - Blue Return
9 - DDC +5 volt supply
10 - Sync return
11 - ID Bit
12 - Bi-directional data (SDA)
13 - H Sync
14 - V Sync
15 - Data Clock (SCL)



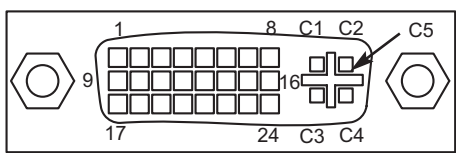
SUB-D HD15 FEMALE CONNECTOR

DIGITAL VISUAL INTERFACE DVI

Pin

1 - TMDS Data 2-
2 - TMDS Data 2+
3 - TMDS Dara 2 Shield
4 - Not used
5 - Not used
6 - DDC Clock
7 - DDC Data
8 - Analog Vertical Sync
9 - TMDS Data 1-
10 - TMDS Data 1+
11 - TMDS Data 1 Shield
12 - Not used
13 - Not used
14 - + 5V (Power)
15 - Ground for (+5V)
16 - Hot Plug Detect.
17 - TMDS Data 0-
18 - TMDS Data 0+
19 - TMDS Data 0 Shield
20 - Not used
21 - Not used
22 - TMDS Clock Shield
23 - TMDS Clock +
24 - TMDS Clock -

C1 - Analog Red Video (or Cr/Pr or C)
C2 - Analog Green Video (or Y or Composite Video)
C3 - Analog Blue Video (or Cb/Pb)
C4 - Analog Horizontal Sync (or Composite Sync)
C5 - Analog Common Ground Return



DVI-I FEMALE CONNECTOR

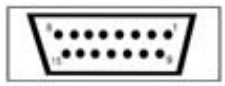
DDC = Display Data Channel
TMDS = Transition Minimized differential signal

More cables, connectors and custom cables are available upon request. Contact us for more information.

MACINTOSH® / POWERMAC®

Pin

1 - Red return
2 - Red
3 - Composite Sync.
4 - Sense 0
5 - Green
6 - Green return
7 - Sense 1
8 - NC
9 - Blue
10 - Sense 2
11 - C/V Grd
12 - V Sync
513 - Blue Gnd
14 - H return
15 - H Sync

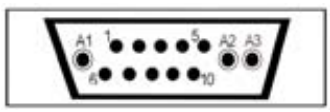


SUB-D DB15 FEMALE CONNECTOR

13W3 - SUN®

Pin

A1 - Red/R-return
A2 - Green/G-return
A3 - Blue/B-return
1 - NC
2 - NC
3 - Sense 2
4 - Sense return
5 - Composite Sync.
6 - NC
7 - NC
8 - Sense 1
9 - Sense 0
10 - Composite Sync. return

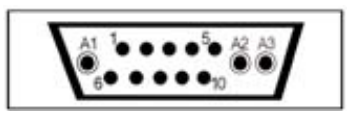


13W3 FEMALE CONNECTOR

13W3 - SILICON GRAPHICS® - 1024x768 & 1280 X 1024 / 30 - 82 kHz, 60 - 76 Hz

Pin

A1 - Red/R-return
A2 - Green/G-return
A3 - Blue/B-return
1 - Monitor Type 3
2 - Monitor Type 0
3 - Composite Sync.
4 - H. Sync
5 - V. Sync
6 - Monitor Type 1
7 - Monitor Type 2
8 - Digital return
9 - Digital return
10 - Sync Return

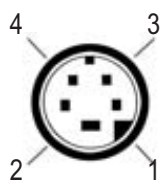


13W3 FEMALE CONNECTOR

S VIDEO (Y/C) CONNECTOR - 4 pin Mini-Din

Pin

1 - Y Ground
2 - C Ground
3 - Y Signal
4 - C Signal

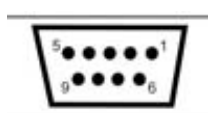


Y/C FEMALE CONNECTOR

RS 232 CONNECTOR

Pin

1 - NC
2 - Transmit Data (TX)
3 - Receive Data (RX)
4 - NC
5 - Ground
6 - NC
7 - NC
8 - NC (or +12V dc)
9 - NC



SUB-D DB9 FEMALE CONNECTOR

Glossary

- **2:3 Pull Down**: Film (24Hz) to Video (USA/60Hz) transfert: adding 1 Video Field (1/60 Sec) every 2 Film Images (@ 24 Image/s) on the following sequence: 2+1, 2, 2+1, 2 ...etc, that is 3,2,3,2...so it gives 5 Video Fields for 2 film Images (83.3 milliseconds).
- **2:2 Pull Down**: Film (25Hz) to Video transfert for "Europe /Asia" (50Hz): by simply running the Film telecinema 4% faster, it transfers 24 to 25 images/s, so it gives 1 Film image (@ 25 images/s) for 2 Video Fields (@ 1/50 sec), that also gives 1 Film for 1 Frame video (@ 1/25 Sec) thus: 2 Films = 2 Frames Video (the resulting +4% audio pitch is quite negligible; less than 1/2 tone for almost all applications)
- **3 LEVEL SYNC**: See Tri-Level sync.
- **8514/A**: IBM®'s first interlaced Computer resolution (1024 x 768 at 86 kHz -i-)

A

- **AAC**: Advanced Audio Coding: high efficiency audio compression algorithm
- **AC3**: Compressed Multi-Channel Digital Audio encoding for Home Theater application, designed by Dolby® Laboratories
- **ADAPTATIVE MOTION COMPENSATION**: System that minimizes visible artifacts contained in some animated images, by calculating new pixels or lines according to the motion of the picture
- **ADSL**: Asymetrical Digital Subscriber Line (about 500 KBits/s sent & 2 Mbits/s received)
- **AM**: Amplitude Modulation
- **AMPLIFIER**: Interface with a signal more powerful in output than in input. Allows several video or audio signals to be transmitted and distributed
- **ANALOG**: An analog "message" is the source of "real-world" signals that can be found everywhere. An analog signal provides infinite continuous and variable values from one position to another. A CRT monitor/projector and a standard audio & video device uses analog signals (versus Digital signals)
- **ANAMORPHIC**: Pre-encoded enlarged DVD picture
- **ANSI**: American National Standards Institute which sets standards either in Audio (i.e.: filter) or Video (i.e.: 1000 Lumens ANSI -Video Projectors brightness)
- **ANTI-FLICKER**: System which significantly eliminates video output flicker (see flicker)
- **ARTIFACTS**: Abnormal disruption of the image that looks like spots, cross color, scratch, steps effects, etc.
- **ASCII**: American Standard Code for Information Interchange. A standard code is used to exchange information between a device and a computer (i.e.: Keyboard). Analog Way uses ASCII code for its remote controls
- **ASPECT RATIO**: Ratio between a picture's width and height. The aspect ratio is mostly 4/3 for TV or 16/9 for HDTV. It still remains constant regardless of the screen size. There can also be specific sizes such as Panavision™, 14/9, Wide Screen, etc.
- **ATM**: Asynchronous Transfert Mode
- **ATSC**: Advanced Television System Committee, American association that defines present and future High Definition Television (HDTV)
- **AUTOSCAN**: Describes a device such as a Scan Converter or Up/Down Converter that automatically recognizes any standard or specific format (resolution and synchronization) connected to its input

B

- **BACK PORCH**: Portion of a video waveform between the rising edge of the horizontal sync. and the blanking edge (non-visible part)
- **BALANCED AUDIO**: The balanced (or differential) Audio system is made up of 3 conductors: the plus (+), minus (-) and ground. The + and - are of opposite phases so that it can drive a very long length of cable without any noise
- **BANDWIDTH**: Range of frequencies that a signal can pass through a product without any distortion or loss of quality. The higher and wider the bandwidth, the better the resulting signal. The bandwidth is the difference between the highest and the lowest frequency of a signal, usually at -3dB of attenuation (0.7) from its maximum level
- **BETACAM™**: Broadcast Video Recorder, providing a YUV output (Sony®)
- **BETAMAX™**: Early consumer VCR with Composite only (Sony®)
- **BLACK BURST**: Composite video signal, with a black picture used to synchronize (Genlock) certain video equipment together, thereby aligning the output. The signal is made up of vertical and horizontal sync. and Chroma burst information (1 wire)
- **BLACK LEVEL**: This is the darkest level that an image can be. Usually, the adjustment of black level is set by the brightness control. The Black level is also the level of the video signal, which involves the blanking
- **BLANKING**: Part of a signal, being the interval between the end of one line or frame and the beginning of the following one. For example, it represents the turn off of a CRT display's beam (non visible) between 2 horizontal lines (horizontal blanking) or between 2 vertical frames or fields of a picture (vertical blanking)
- **BLUETOOTH**: Radio Frequency Network for bidirectional communication (up to 10 or 100 meters) at 2,4 GHz
- **BNC CONNECTOR**: Coaxial connector that can easily be locked. These connectors are widely used for video broadcast interconnections
- **BOOSTED OUTPUT**: Amplified output to drive heavy loads or long coaxial cables
- **BOOSTER**: Device that enables long distance signal driving. Can also provide several outputs (see Distribution Amplifier)
- **BREAKAWAY**: When the audio and video signals from the same source can be separated and used independently
- **BRIGHTNESS**: Intensity of the video level being the quantity of brightness emitted by the display (offset of a visible part of the video picture)
- **BUFFER**: Electronic device with a unity gain, that allows an input signal to be "isolated" from the output signal
- **B-Y**: See UV

C

- **CABLE EQUALIZATION**: Technology for compensating the High Frequency quality losses in long distance cable applications
- **CAD**: Computer Aided Design, Software and Hardware used in design work
- **CANNON™**: Sometimes called "D" connector, originally manufactured by ITT/CANNON® for the early industrial field
- **CAPTIVE SCREW**: Connector with 3 or 5 wires for balanced & unbalanced Audio (i.e. PHOENIX®)
- **C.C.I.R**: Comité Consultatif International Radiocommunication, committee that sets European TV standards (taken over by ITU)
- **C.C.I.T.T**: Consultative Committee on International Telegraphy & Telephony
- **C.C.T.V**: Closed Caption TV or Closed Circuit TV, restricted area for TV broadcasting
- **CE**: Comformité Européenne (European Compliance). CE label is assigned to a product complying with the European Union (EU) directive for EMI, RFI Interference and Safety
- **CD**: Digital Audio Compact Disc, designed by Philips®, Marantz®, Sony®
- **CGA**: Color Graphic Adaptor. IBM's first low resolution display format 640 x 200 for computers with a 4/16 color (TTL signal), at 15 kHz Line Frequency
- **CHROMINANCE**: Color information contained in a video signal. The chrominance is independent from the luminance. A video picture without any chrominance would be Black and White
- **CINCH**: Connector (coaxial) mainly used in Audio and Video. See RCA®
- **CMRR**: Common Mode Rejection Ratio, ratio of useful & noise signals expressed in dB. In this case, a useful signal is "differential", noise is "common mode" (see Balanced)
- **CMYK**: Cyan, Magenta, Yellow and Black are colors used for printing. It is the opposite in Video that instead of adding colors to make white subtracts colors to make white. If C=M=Y=K=0, it is white (no ink)
- **COLOR DIFFERENCE**: See U,V
- **COLOR SATURATION**: The amount of color versus white brightness. "Dark Blue" is more saturated than "Light Blue"
- **COLOR SUBCARRIER**: See Subcarrier
- **COMB FILTER**: Improved video delay line filter for separation between the Luma and the Chroma. It is called a comb filter because its frequency response looks like a comb
- **COMPONENT VIDEO**: Video signal (also called YUV / Y, R-Y, B-Y / BETACAM™, DVCAM™ (Sony) / MII™, DVCPRO™ (JVC, Panasonic)) widely used in broadcasting. The quality level is better than Y/C and Composite Video signals. The advantage is that the Y luminance is separated from the Chrominance U&V. The Component Video signal is transmitted with 3 coaxial cables
- **COMPOSITE SYNC**.: Signal made of Horizontal and Vertical synchronization pulses that does not contain Chrominance and Luminance information. Sometimes it can also be called "C.SYNC", "SYNC", "COMP" (1 coaxial wire)
- **COMPOSITE VIDEO**: Video signal that combines the modulated Chrominance, the Luminance and the Sync. pulses. The signal is transmitted by a single coaxial cable. It is usually called PAL, SECAM or NTSC
- **CONTACT CLOSURE**: Used for remote control of basic functions. Splicing of conductors allowing the electrical signal to pass
- **CONTRAST**: The range of the minimum and the maximum brightness values
- **CPU**: Central Processing Unit
- **CRCB**: Also called Digital U,V
- **CROSS COLOR**: Diaphony between luminance and chrominance in Composite video signals. Often seen on fine verticals lines of a TV set (High Frequencies transitions)
- **CRT**: Cathode Ray Tube. Vacuum tube for displays, in which electrons are projected onto a phosphor screen to produce light and further images. This technology is used in televisions and computer monitors

D

- **D1**: Term used for a broadcaster digital video signal. Equivalent to serial or parallel digitized YUV that is sampled in a 4:2:2 form with 8 or 10 quantified bits. About 270 Mbits per second (non-compressed)
- **D2**: Digital composite video (PAL & NTSC), non-compressed, it is about 143 & 116 Mbits/sec
- **D2 MAC PAQUET**: Early European High Definition Television Standard
- **D CONNECTOR**: Connector generally used with computers. DB or D have 2 rows of pins (see also HD connector)
- **DAT**: Digital Audio Transport, commonly called Tape. It was created to record information in a digital form.
- **DATA MONITOR**: Term used to define the computer or display monitors that cannot display TV/Video signals (15 kHz). A Data monitor's starting frequency is of about 31 kHz or more (VGA, SVGA...)
- **DDWG**: Display Digital Working Group, open manufacturer group for defining the display connection topic.
- **DECIBEL (dB)**: Logarithmic ratio of two "powers" or "voltage" in term of losses or gains (1/10 of a Bel). It is commonly used in Audio systems: OdB is a gain of unity and -3dB is a gain of 0.7
- **DECODER**: Video (TV scan) device that transforms a Composite or Y/C signal into an YUV or RGB baseband, with no change in Horizontal and Vertical frequencies
- **DECT**: Digitally Enhanced Cordless Telephony (Europe)
- **DFP**: Digital Flat Panel (connector & interfacing)
- **DIFFERENTIAL AUDIO**: see balanced
- **DIGITAL**: Way of coding an analog signal. A Digital signal

uses sampled amplitude and Discrete Time Coding manners. For example, a TV's analog YUV converted to Digital gives the D1 digital standard. An LCD projector uses digital coding for displaying an image (see Analog)

- **D-ILA**: Digital Intensity Light Amplifier, developped by JVC® for it's projector range
- **DIN CONNECTOR**: Deutsche Industrie Norm. Connector that exists in different versions: 4, 5, 8, etc. pins. The S.Video signal generally uses a 4 pins mini DIN (Y/C) connector. Some computer keyboards use DIN or Mini DIN connectors
- **DISTRIBUTION AMPLIFIER**: Device enabling the signal connected to its input to be multiplied and amplified. Also enables several display devices to be connected to the same source. Also called BOOSTER or SPLITTER
- **DLP**: Digital Light Processor. Digital technology for display devices that use DMD® (Digital Micromirror Device) for accurate, bright images
- **DMD**: Digital Micromirror Device. Array of small mirrors layered on matched semi- conductor substrate, which are "moved" by electrical currents and reflect the corresponding light to form an image. Patented by Texas Instruments®
- **DOLBY:** From Dolby Laboratories (1965), pioneer in Analog, Digital and multi-channel compression in the consumer and professional fields, with Dolby A, B, C, HX, SR, Surround, Pro Logic, AC3, EX and E. The later seems to be used for HDTV distribution and routing
- **DOS**: Disk Operating System. Program making links between the computer and the user (used initially by IBM™)
- **DOUBLER**: See Line Doubler
- **DOWN CONVERTER**: Device that converts Hi-Resolution computer graphics into a lower (down) computer format, by changing the Horizontal and vertical Scan rate to then be easily displayed
- **DTC**: Direct Touch Control™. Concept for touch controls with direct access, for fast, easy adjustments. Designed by Analog Way® for some of their products such as Scan Converters, Seamless Switchers,...
- **DTS**: High-End Dig ital Audio encoding for Home Theater applications (compressed Multi-Channel). Designed by Digital Theater Systems®
- **DV**: Digital Video usually compressed differently for many Digital Video Recorders (E.g. Digital-S™, DVCPRO™, DVCAM™, DIGITAL BETACAM™ or FIREWIRE™)
- **DVB**: Digital Video Broadcasting. DVB-S: Satellite, DVB-T: Terrestrial, DVB-C: Cable.
- **DVD**: Digital Versatile Disc. Optical disc of the same physical size as a CD Rom or an Audio CD but dedicated to the storage of Audio and Video (movies) compressed DATA (MPEG-2 for instance).
- **DVI**: Digital Visual Interface; connector & SERIAL data Computer interface which transport 3 separate serial channels @ 8 Bits each (R,G,B)+ 1 separate Clock to sample them; electronic transmission is "differential" mode. Mainly found in displays in ADDITION of Analog RGB signals:
  - DVI-D: Digital ONLY connector (with separate HD-15 Analog RGBHV connector)
  - DVI-I: Digital + Analog RGB(HV) on the SAME connector (additional CROSS shape)

E

- **EBU**: European Broadcasting Union, which sets European TV Standards
- **ECL**: Emitter Coupled Logic. Very High speed digital technology, or Analog D/A converted RGB
- **EDTV**: Enhanced Definition TV, improved consumer compatible TV
- **EGA**: Enhanced Graphics Adaptor. Provided by IBM®, it is a low-resolution display format for computers with a line frequency of about 22 kHz (32 colors TTL digital format)
- **EIA**: Electronics Industries Association, which sets certain communication protocols (RS232)
- **EMI**: Electro-Magnetic Interference, noise
- **ENCODER**: Video (TVScan) interface that converts YUV or RGB signals into encoded modulated Composite or Y/C, with no changes in the Horizontal and the vertical frequencies
- **ENG**: Electronic News Gathering
- **EVC**: Enhanced Video Connector; defined by the VESA association.

F

- **FADE:** Method of soft switching between 2 sources. When the first source disappears and the second one appears simultaneously on the screen, it is called the dissolve function
- **FCC**: Federal Communication Commission. U.S governmental agency that manages the EMI/RFI policy
- **FIELD**: An interlaced TV screen is made up of two fields, each one containing half of the scan lines needed to make one standard video frame (picture). See also FRAME
- **FIRE WIRE©**: by MACINTOSH®, also called IEEE 1394 or i.Link®, it is a Data/Audio/Video Serial Digital compressed format (DV). Used on the Institutional and Hi-Tech Consumer markets
- **FLICKER**: Visual effect of a picture when the frame refresh rate is too slow (it also looks like a horizontal blinking line)
- **FM**: Frequency Modulation (SECAM subcarrier)
- **FRACTALS**: Other Image compression algorithms than M.PEG
- **FRAME**: Video image. In an Interlaced system, 1 video picture frame is made up of 2 fields. In PAL/SECAM standard, a frame is made up of 625 horizontal lines, so 2 x 312.5 lines per field. In NTSC, a frame is made up of 525 horizontal lines, so 2 x 262.5 lines per field
- **FRAME RATE**: the frame rate is how fast the video generator "re-builds" the entire screen with a new frame. For PAL/SECAM, the frame rate is 25 Hz and the field rate is 50 Hz. For NTSC signal, it is 30 Hz and 60 Hz. For black and white signals, then 29,97 and 59,94 Hz for Color. See INTERLACED
- **FREEZE**: Function for freezing the output image
- **FREQUENCY**: Symbol: Hz. Number of cycles per second in a signal. A cycle is when a periodic signal starts with a certain value and reaches the same value the next time
- **FRONT PORCH**: Non-Visible part of the video signal, between the blanking edge and the falling edge of the horizontal sync.

G

- **G3,G4**: MACINTOSH®'s personal computer
- **GAIN**: Amplification of an input signal versus its output (ratio). The gain is usually in decibels (dB). Unity Gain: 0dB
- **GAMMA**: Function that gives the non-linearity response of a CRT display
- **GENLOCK**: Synchronization method used in video equipment such as Scan Converters. It consists of using an external Master Signal (the Black Burst generator is a TV/Studio video genlock source). It enables several video sources to be cut, faded and mixed together
- **GROUND LOOP**: Common noise problem found in signal management caused by different ground potentials when an item is connected to several others

H

- **H 264**: Compression Algorithms conceived by ITV & MPEG teams together. It is equivalent to MPEG.4 efficiency
- **H SYNC.**: see HORIZONTAL SYNC.
- **HD BLACK**: see HD GENLOCK
- **HD CONNECTOR**: High Density Connector, usually used for the video display of RGB signals on Personal Computers (an HD 15 connector has 3 rows of 5 pins)
- **HD GENLOCK**: There are 2 types : Analog HD Black with 3 levels Sync., and Black HDSDI serial stream with 10 bits H&V word flags. See also GENLOCK
- **HDMI**: High Definition Digital Interface: small connector & SERIAL data for Computer, Video(15Khz),HDTV & Audio. It is backward DVI compatible. The electronic transmission is also differential. Coming in High-Tech Consumer and Professional display.
- **HD-SDI**: High Definition Serial Digital Interface. For Broadcast Television. YUV-4:2:2 8 or 10 bits multiplexed High Speed component (about 1,5 gb/s to 3 gb/s, depending on the standard). Non compressed.
- **HDTV**: High Definition Television, video technology giving an improved resolution at least twice as high as in the NTSC, PAL, SECAM standards (e.g. 720 p means 720 progressive lines, 1080 i means 1080 interlaced lines). Up to 30 HDTV formats have been proposed, since the beginning, by worlwide manufacturers and working groups. Only a few of them have been retained (principally the 720p, 1080i, 1080 sF, 1035i).
- **HERTZ (Hz)**: Frequency Measurement unit (1 cycle per second)
- **HGA**: Hercules Graphics Adaptor, designed by HERCULE®, used in early computer display technology
- **Hi-8**: Improved 8 mm tape video signal also used to describe a camcorder's video output (SONY®), see S.Video
- **HIGH IMPEDANCE (Hi-Z)**: Term used for a High input or output load. Most of Analog Way's converters are fitted with a Hi-Z / 75 Ohms switch on their RGB input/output loopthrough
- **HI-VISION**: See Muse
- **HORIZONTAL FREQUENCY**: Also called Line Frequency, it is the number of horizontal lines per second that a video signal generates (Hz) - see Line Frequency
- **HORIZONTAL RESOLUTION**: Can either be the number of vertical lines that can be seen on the screen of a TV device (from left to right) or the number of pixels contained in a line, for a computer display
- **HORIZONTAL SYNC.**: Portion of a video waveform that indicates to the display where the beginning of a non-visible part of the picture is (from left to right axis). The horizontal sync. abbreviation marked on the products is H Sync. or H.
- **HTML**: HyperText Markup Language
- **HTTP**: HyperText Transfert Protocol
- **HUE**: Picture's color tint adjustment. The hue is active only on NTSC video sources. It acts directly on the Red, Green and Blue by changing their UV color balance
- **HUM BARS**: Image interference, caused by ground loops, that looks like horizontal bars which scroll vertically on the screen. They can be eliminated by some HUM suppressor
- **H&V SEPARATED SYNC.**: Signal in which the horizontal sync. and the vertical sync. are transmitted separately (2 wires, commonly found in Computer Sync. displays)
- **Hz**: see Hertz

I

- **I.LINK®**: See FIREWIRE©
- ICIA: International Communication Industry Association. Official Audio & Video industry association (NAVA issued)
- **IDTV**: Improved Definition TV. Enhanced quality consumer TV
- **IEC CONNECTOR**: International Electrotechnical Committee. Standard AC power cable and connector used to power scan converters, interfaces, projectors... and most electronic equipments

- **IEEE**: Institute of Electrical & Electronics Engineers
- **IEEE 1394**: See FIREWIRE©
- **ILA™**: Image Light Amplifier. Technology used to increase the brightness. Designed by Hugues/JVC®
- **IMAC**: MACINTOSH® computer from APPLE®
- IMPEDANCE: Load signal, measured in Ohms. The impedance of a video signal is 75 Ohms (low impedance) and it has to be matched to the cable impedance to avoid echo on the picture
- **INFRA-RED (IR)**: Invisible light waves used for cordless transmission & to control devices. It does not pass-trough a wall nor a door
- **INTERFACE**: Device or program that creates a link between 2 different products. In Video, the interface usually adapts the computer unit (CPU) to different displays. It acts only on the synchronization but not on the scanning rate (see Scan Converter). Powerful interfaces are fully automatic and with no Dip Switches
- **INTERLACED (i)**: Method of line interleaving that scans the image into 2 fields (1 image = 1 frame = 2 fields). TV video standards (PAL, SECAM, NTSC) use the interlaced method. PAL/SECAM is equivalent to 625 lines per frame which is equivalent to 2 x {312.5 lines per field}. NTSC is equivalent to 525 lines per frame which is equivalent to 2 x {262.5 lines per field}. However, computer sources usually use Non Interlaced or Progressive scanning methods (1 image = 1 frame = 1 field).
- **IP**: Internet Protocol (also Intellectual Property)
- **IR**: see Infra-red
- **ISDN:** Integrated Service Digital Network. High speed Audio & Data modem (around 64 Kbit per second)
- **ISO**: International Standard Organization
- **ITU**: International Telecommunication Union. Committee that sets Digital Broadcast Video Standards (successor to CCIR)

J

- **JACK**: Coaxial type connector (6.35 mm or 3.5 mm) usually used in Music and Audio equipment
- **JITTER**: Short cycle problem that can be described by a fast up/down or left/right movement on the picture (it could also be a short cycle problem such as a frequency jitter)
- **J.PEG**: Joint Photographic Experts Group. Process for compressing still and moving images (ie: Jpeg 2000)

K

- **KEYER**: Video Information that provides a "KEY" to overlay and mix 2 Video images
- **KEYSTONE EFFECT**: Distorted image when projected onto the screen at a high vertical angle. Some Up/down converters incorporate a powerful keystone corrector function
- **KILOHERTZ**: Symbol: kHz. Equivalent to 1000 Hertz (10^3 Hertz)

L

- **LAN**: Local Aera Network
- **LASER DISC**: See LD
- **LCD**: Liquid Crystal Display. Display technology using liquid crystal cells between 2 panels of polarizing material. The technology is used in laptop computers, LCD panels and projectors
- **LD**: Audio and Video Laser Disc (Analog FM coding), early design by RCA®, Philips®, Magnavox®
- **LETTERBOX**: See Widescreen
- **LEVEL**: Intensity of electrical AUDIO signals. Equivalent to contrast in Video signals
- **LINE DOUBLER**: Device that converts a 15 kHz TV/Video signals into a doubled resolution format (from 15 kHz to 31 kHz) by multiplying the number of lines by 2. The Line Doubler fills in the black space between the lines of the input image and, in this way, gives to the image a better brightness and resolution.
- **LINE FREQUENCY**: For a display, it is the number of scanned lines in 1 second. In SVGA, for example, the Line Frequency is of about 37 kHz so it gives a rate of 37000 lines per second
- **LINE QUADRUPLER**: Device that converts a 15 kHz TV/Video signals into a very high resolution format by multiplying the number of lines by 4 (60 kHz). The Line Quadrupler fills in the space between the lines of the input image twice as much as a Line Doubler
- **LOOPTHROUGH**: Pair of Input / Output connectors that enable a signal to be inserted into a device and to be reconnected to another device. It does not affect the signal since it is transparent
- **LP**: Long Play, early Vinyl 33 RPM disc (33 Tours)
- **LUMA KEY**: Luminance video signal (without any color information) dedicated to trigger an overlay by a brightness level
- **LUMEN**: Unit used in measuring the quantity of light (LUMEN ANSI)
- **LUMINANCE:** The Weighted Y brightness part of a video signal (Y= 0.3 Red+ 0.6 Green+ 0.11 Blue)

M

- **MEGAHERTZ**: Symbol= MHz, equivalent to 1 million Hertz or 10^6 Hertz
- **MII™**: M 2. Broadcast Video Recorder, providing a YUV output (JVC®/ Panasonic®)
- **MINI DIN**: See DIN
- **MODEM**: MODulator DEModulator. Device used in telephony for bi-directional access
- **MONOCHROME**: Image with a single color or black & white. Nowadays, monochrome images are only used in High Resolution applications such as in Military or Medical environments
- **MPEG**: Motion Picture Expert Group. Process for compressing moving pictures (i.e. M.PEG2 for TV & HDTV) for transport or storage
- **MPEG.2 (H.262)**: Audio & Video compression algorithm.
- **MPEG.4 (H.264)**: high efficiency compression algorithm.(MPEG & ITU group)
- **MOTION**: See Adaptive Motion Compensation
- **MUSE**: Japanese Broadcast Transport Schema of 16/9 HDTV standard (Hi-Vision) that has been running for years in 1135 lines / 60 Hz mode (interlaced)
- **MXF**: Material eXchange Format. Seems to be widely accepted open interchange format in order to improve the interprobability between different devices that create and receive content

N

- **NON INTERLACED**: Method of scanning all the lines of a picture (1 image = 1 frame = 1 field). E.g. for a computer working in SVGA at 800 x 600 lines, it gives 600 lines per frame. For some HDTV formats, the scanning method is the same but is called "progressive"
- **NAB**: National Association Broadcaster
- **NEXT®**: Early WORKSTATION with APPLE® "concept"
- **NSCA**: National Systems Contractors Association
- **NTSC**: National Television Standard Committee. Television standard used in North America, Japan and other parts of the world (South America and Asia). NTSC has 525 horizontal and interlaced lines refreshed at 60 fields per second. The Chrominance subcarrier is of 3.58 MHz (sometimes 4.43 MHz). See also FRAME RATE

O

- **OHM**: Measurement of resistance (named after Georg Simon Ohm), shown by the Ω symbol. 75 Ohms is the standard load for an RGB video signal
- **OSD**: On Screen Display
- **OSHIDEN™**: See S.Video connector
- **OS/2**: Operating System - 2 - IBM® at beginning
- **OVERLAY**: Action of cutting and mixing 2 or more video pictures onto the same display
- **OVERSCAN**: Opposite of UNDERSCAN. In Overscan mode, to avoid seeing the corners and the borders, the image is displayed about 8% bigger than in standard (Underscan) mode. Standard TV display mode is Overscan

P

- **PAL**: Phase Alternate Line. Television standard used in Western Europe, Australia, Britain and South Africa. A PAL picture is composed of 625 horizontal, interlaced lines refreshed at 50 fields per second. The Chrominance subcarrier is of 4.43 MHz
- **PAL-M**: Brazilian version of the PAL standard composed of 525 horizontal, interlaced lines refreshed at 60 fields per second. The Chrominance subcarrier is of 4.43 MHz
- **PATTERN GENERATOR**: Specific picture device, enabling adjustments to be made
- **PC**: Personal Computer. First introduced by IBM®. PC, PCXT, PCAT and others are now worldwide manufacturer compatible
- **PERIOD**: Time taken by a periodic signal to execute a cycle. See Frequency
- **PERITEL™**: French word for SCART. Comes from MATRA® Subsidiary company. See SCART
- **PIP**: Picture in Picture
- **PITCH**: Distance that separates 2 pixels in a display
- **PIXEL**: Abbreviation for picture element. A pixel is the smallest element (Black and White or Color) that makes up an image. Pixels make up lines and columns and define the resolution of the picture. E.g. XGA = 1024 x 768 = 1024 pixels x 768 lines = 786432 pixels per image
- **POLARITY**: Positive or Negative sign of a signal
- **POWER PC®, POWER MAC®**: Combination of the "PC" and "APPLE" world for a unique standards compatible computer platform
- **PROGRESSIVE**: see non-interlaced
- **PS/2**: Personel System - 2 (IBM®)
- **PULL DOWN (2/3)**: Method for transfering Film Image (24/sec) to video (30/sec) in USA & Japan. Image sequence is 2/3/2/3 with 2+3=5 Fields redondancy

Q

- **QUADRA™**: MACINTOSH®'s personal computer
- **QUADRUPLER**: see Line Quadrupler
- **Q.XGA**: Super High-Resolution computer format, about 2000 x 2000

R

- **RAID**: Redondant Array Parallel Disks.
- **RCA™ CONNECTOR**: CINCH coaxial connector, usually used for audio signal (red = right, white = left) or composite video signal (yellow = C.Video). Sometimes called Phono plug
- **REAL TIME CONVERSION**: Feature of a converter that treats, calculates and renders an input signal to its output in a very short time (almost instantaneously). This operation is not visible to the naked eye.
- **REFRESH RATE**: Rate for redrawing a frame on the video image field or frame (Hz). It is the "Vertical" Frequency rate which is related to the flicker of the picture
- **REMOTE CONTROL**: Device or program enabling another device to be controlled from a distance
- **RESOLUTION**: Amount of horizontal and vertical information contained in an image. Composite NTSC is a 350 x 480 resolution and XGA (Computer) is a 1024 x 768 resolution. The higher the resolution, the better and sharper the picture will be
- **RFI**: Radio Frequency Interference noise (electric field)
- **RGB**: Abbreviation for Red, Green and Blue. The 3 primary colors of light that are the basic additive components of the color television system and computer image. The weighted sum of R,G,B signals gives a "white" color, visible to the naked eye
- **RGB HV**: RGB signal with separated Horizontal sync. and Vertical sync.. The signal is transmitted by a 5 wires coaxial cable. It is usually used for PCs and is compatible with most computers
- **RGB S**: RGB signal with composite sync. which is transmitted by a 4 wires coaxial cable. Sometimes called RGB sync.
- **RNIS**: Réseau Numérique Intégration Service. French equivalent of ISDN
- **RS 170 A**: North American standard for NTSC Video

- **RS232**: A worldwide serial digital interface standard used for the remote control of many devices usually used in the Audio and Video Industrial, fields.
- **R-Y**: See UV

S

- **SACD**: Super Audio Compact Disc (enhanced Audio CD encoding)
- **SCALER**: Device that changes the effective resolution of a TV/Video image into a native match standard high-resolution computer format such as S.XGA, XGA, SVGA or VGA. It's a "combination" of a Line Doubler, Tripler & Quadrupler. Usually dedicated to DATA displays and projectors, to improve the resolution, increase the brightness and to decrease the flickering of the picture
- **SCAN**: Horizontal and vertical scanning scheme of a display, in Video systems. On TV-CRT, it is the electron beam that scans the vacuum tube's phosphorus material and gives the brightness (in 15500 times per second interlaced mode)
- **SCAN CONVERTER**: Device that converts a Computer scan rate into a TV/Video signal allowing computer images to be displayed or recorded on any video support. The Horizontal and the Vertical scanning rate are changed.
- **SCAN DOUBLER**: See Line Doubler
- **SCART**: Syndicat Constructeurs Appareils Radio Téléviseurs (France). 21 pins connector incorporated into many European video devices. Allows mono or stereo audio, Composite, Y/C and RGB video to be transmitted between equipments
- **SCH**: SubCarrier & Horizontal Sync. phase (see Scan Converter with Genlock)
- **SCØ**: SubCarrier relative phases between several video sources (see Scan Converter with Genlock)
- **SCSI**: Small Computer System Interface; widely used general purpose parallel data bus.
- **SDI**: Serial Digital Interface, especially present in Broadcast Scan Converters with a Digital Output (see D1)
- **SDTV**: Standard Definition TV (15 kHz), in opposition with HDTV. It means analog or digital signals
- **SEAMLESS**: Term used to define clean, fast switching between 2 sources. This new way of switching operates without any loss of synchronization and is glitch-free on the display. See SEAMLESS SWITCHER® section
- **SECAM**: SEquentiel Couleur Avec Mémoire (Sequential Color With Memory). Television standard used in France, Africa, Russia and Eastern Europe. Like the PAL system, a SECAM picture consists of 625 horizontal lines refreshed at 50 Hz interlaced, but the color is coded in a different way (Frequency modulation, 1 line U & 1 line V)
- **SEGMENTED FRAME**: HDTV standard proposed by SONY®: 1080 sF 24*, where the 1080 progressive lines at 24 frames/sec are interlaced in 2x540 at 48 fields/sec. (In fact, it's more exactly 23,97 and 47,95 Hz for Color)
- **SERRATION**: Pulse that occurs during the vertical sync. interval. Used to provide correct interlacing in televisions.
- **SGI®**: Abbreviation usually used to refer to Silicon Graphics®, Indigo™ workstations (this computer works with a super high resolution image and often uses a 13W3 connector)
- **SHARPNESS**: Definition of a picture's edges
- **SMOOTHING**: Filtering adjustment (opposite of sharpness adjustment)
- **SMPTE**: Society of Motion Picture & Television Engineers. A worldwide organization which sets standards in Movie, Video (TV), and HDTV fields
- **SMTP**: Simple Mail Transport Protocol (for e-mail)
- **SNMP**: Simple Network Management Protocol
- **SOG**: Sync. On Green. Video signal in which the Composite Sync. information is added to the green luminance signal. Called RGsB, or RGB with SOG
- **SONET:** Synchronous Optical Network (Ultra-High Speed fiber)
- **SPLITTER**: See Distribution Amplifier
- **SSB**: Single Side Band. Equivalent to BLU in French. Amplitude Modulation of a Single Lateral Band (basic processing of PAL & NTSC UV components for composite video)
- **STANDARD CONVERTER**: Device that converts different TV or HDTV standards. Usually, it is a High-End device for Broadcasting in different countries where the Horizontal and the Vertical frequencies have to be converted (i.e. NTSC to PAL)
- **SUB-CARRIER**: Frequency carrier: Suppressed Carrier Amplitude modulation (SSB) for PAL & NTSC and Frequency Modulation for SECAM
- **SUB D CONNECTOR**: See D Connector
- S.VGA: Super Video Graphic Array, it usually is 800 x 600 (sometimes 1024 x 768). It is a higher resolution than VGA
- **SVHS™**: Super Video Home System (JVC®, PANASONIC®). See S.Video
- **S.VIDEO**: Super Video. Also called Y/C, H.I 8™, S.VHS™. TV Video signal in which the encoded Luminance and Chrominance signals (2 wires) are separately transmitted thereby giving a higher quality picture than a Composite Video signal. The standard S.Video connector is a 4 pin Mini-Din connector also called Oshiden™ connector.
- **SWITCHER**: Device that allows many sources to be selected (computer, video, TV, audio, ..) onto only one output display device
- **S.XGA**: Super eXtended Graphic Array. Non-interlaced High Resolution (1280 x 1024)
- **SYNC. ON GREEN**: See SOG
- **SYNC. POLARITY**: Negative or positive sync. pulse

T

- **TBC**: Time Base Corrector. Video device that allows to re-generate (with no default) the sync. of a video signal from a jittery, noisy source (E.g. VCR)
- **TCP**: Transmission Control Protocol (TCP/IP: by Internet Protocol); can be also used to monitor or control some devices
- **TINT**: See HUE
- **TRANSCODER**: Video (TV scan) device that converts encoded Composite or Y/C signals into encoded Composite or Y/C signals but with different standards. This operation is made with no changes in the Horizontal and the Vertical scan frequencies (E.g. PAL to SECAM)
- **TRI-LEVEL SYNC**: HDTV standard, for Analog YUV & RGB embedded Sync on each on the 3 channels. The 3 "steps" levels are -0,3v, 0v on 751 load
- **TTL**: Transistor to Transistor Logic

U

- **UDP**: User Datagram Protocol (UDP/IP: by Internet Protocol Layer4); can bealso used to monitor or control some devices.
- **UL**: Underwriter's Laboratories (U.S.A.)
- **U.MATIC**: Early "Broadcast" Video Tape Recorder (Sony®)
- **UNDERSCAN**: Output image size. In Underscan mode, the entire image looks like a rectangle centered on the display screen with a black border around it
- **UNIX™**: A computer operating system (Hi-End Multi-Users)
- **UP-CONVERTER**: Device that converts a computer graphics image into a Higher (up) resolution computer format, by changing the horizontal and the vertical scan rates.
- **USB**: Universal Serial Bus, for computer peripherals
- **U,V**: Sometimes called DR, DB or PR, PB. It is the difference of color versus the white (Y) Luminance. U=DR=R-Y and V=DB=B-Y (see Component)
- **U.XGA**: Ultra eXtended Graphic Array. Non-interlaced Super High Resolution (1600 x 1280)

V

- **V2000**: Early consumer Composite only (Philips®)
- **VCR**: Video Cassette Recorder
- **VECTORSCOPE**: Type of oscilloscope used to measure all of the parameters of a video waveform
- **VERTICAL FREQUENCY**: See refresh rate
- **VESA**: Video Electronics Standards Association. Organization that sets format standards for displays computers
- **VGA**: Video Graphics Array. Analog computer format (first introduced by IBM®) with Horizontal & Vertical separated sync. VGA is a 640 x 480 resolution at 60 HZ or 70 Hz (non-interlaced vertical scan rate)
- **VHS**: Video Home System. First and the only "survival" Video recording system designed by JVC®/PANASONIC®, using analog Composite Video signals
- **VIDEO AMPLIFIER**: Amplifier used for video signals. Enables a signal to be transmitted over a long distance (see Booster)
- **VIDEO BOOSTER**: See Booster
- **VIDEO CONVERTER**: See Scan Converter
- **VIDEO STANDARDS**: TV/Video system also called TV or HDTV standard. The main worldwide TV standards are PAL, SECAM and NTSC
- **VTR**: Video Tape Recorder (Video Transport Recorder), Hi-End

W

- **WAN**: Wide Area Network
- **WAVELET**: Other alternative of Image compression algorithms than M.PEG
- **WIDESCREEN**: TV & Movie Format used for wide screen televisions (see Aspect Ratio)
- **WINDOWS**: Computer operating system supplied by Microsoft®
- **WORKSTATIONS**: High Performance "Super" computer (i.e. IBM®, SUN®, Silicon Graphics®, DEC®, Hewlett Packard®, Bull®, Intergraph®)
- **WM9**: Windows Media 9, high efficiency video A/V software encoding by Microsoft

X

- **XGA**: eXtended Graphics Array card. Introduced by IBM®, it is a standard computer format. XGA is non-interlaced and consists of 1024 x 768 pixels at about 35 kHz / 60 Hz
- **XGA.2**: eXtended Graphics Array card - 2nd generation. Standard computer format consisting of 1024 x 768 pixels (at at least 48 kHz / 60 Hz non-interlaced)
- **XLR**: Also called Switchcraft™, it is a sturdy, industrial & music Audio connector (3 pins for XLR-3), for low levels balanced applications

Y

- **Y**: Abbreviation for luminance (see Luminance)
- **YUV**: See COMPONENT Video
- **Y/C**: Term used to describe the video signal with separate Luminance (Y) and modulated Chrominance®. Also called S.Video

Z

- **Z**: Impedance symbol (see OHM)

INDEX
PRODUCT RANGE
ANALOG WAY

INDEX by reference

INDEX OF CABLES

PIN OUT

INDEX by product

RECYCLING

As we are concerned about our future, it is our responsibility to contribute to the protection of the environment. Analog Way uses some recyclable and non-polluting cardboard to package its products. All the paper used to make this catalogue is chlorine free.

All Analog Way new products are ROHS compliant, and the rest of our ranges are in the process of being redesigned to be compliant.

COMPLIANCE

The information processing products are managed by national and international standards regarding Safety and Electro Magnetic Compatibility (EMC). Analog Way takes special care in respecting these standards for its whole range of products.

WARRANTY

All Analog Way products have a 3 year warranty on parts and labor, back to factory.

COMPATIBILITY

All Analog Way products equipped with a RS232 input are compatible with Crestron, AMX, Medialon and any major control system. Either standard or optional, TCP/IP control is also available on some products.

MEMBERSHIP

Analog Way is a member of several A/V associations such as ICIA (International Communications Industries Association), NAB (National Association of Broadcasters), NSCA (National Systems Contractors Association), SMPTE (Society of Motion Picture and Televion Engineers), IEEE (Institute of Electrical & Electronics Engineers).

NOTE

All our products are continuously updated, photos and specifications introduced in this catalogue are subject to change at any time and without prior notification. All trademarks are registered by their own.

YOUR ANALOG WAY DISTRIBUTOR

ANALOG WAY®

Europe, Middle East and Africa
Parc du Moulin - BP 218
91882 Massy
Tel. 33 1 64 47 16 03
Fax 33 1 64 47 14 73
saleseuro@analogway.com

Asia Pacific
700 Beach Road #03-07
InCity Lofts
Singapore 199598
Tel 65 62 92 58 00
Fax 65 62 92 52 05
sales@analogwayasia.com

USA, Canada, South America and the Carribeans
75 Maiden Lane - Suite 902
New York - NY 10038
Tel. 1 212 269 1902
Fax 1 212 269 1943
salesusa@analogway.com